ANWARUL ULOOM COLLEGE (AUTONOMOUS)

(Affiliated to Osmania University)

Accredited by NAAC with 'A '+ Grade

New Mallepally, Hyderabad – 500001, T.S,India.

DEPARTMENT OF ARABIC

Teaching Lesson Plan

2024 - 2025

Subject: ARABIC **Semester: I**

Class: Degree I Year **Name of the Faculty: Dr. Anjum Fatima**

Topic/Unit/Chapter	No. of Classes (From July to Nov.	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit: I Classical Prose: 1. Suratul Qariyah – 1. سورة القارعة .	10/7/2024 To 30/7/2024	The main aim of the subject is to make aware the students to get knowledge of Quran. The aim and object of this surah too are to console and encourage Mohammed.(saws)	*Text Book *Quran. *Mobile * PPT *Board, Marker	*Internal Assessment Test * Home Work * Memorizing of . Surah	Students came to know the benefits of reciting this surah Is the increase of memory and concentration. Students learn how to read the verses of Quran in proper way and they know the translation n Tafseer of it. They know the benefits of learning Quran.

2. Suratu al Takasur 2. سورة التكاثر 3. Suratu al Inshira 2) سورة الانشراح Unit: II Modern Prose 1. Conversation . الحوار - 2. The cleanliness النظافة 3. Dursu al Lugha Al Arabia part – 1 a) Lesson No. 1 b) Lesson No. 2	1/8/2024 To 14/8/2024 16/8/2024 To 31/8/2024 16/8/2024 To 31/8/2024	The aim of the subject is to make aware the students to get knowledge of Quran. Students came to know how to speak in Arabic language, how to introduce them self with others in Arabic language through this lesson. Students learn about the types of cleanliness n who is responsible for that, And they came to know about it in the shadow of Islam. Through Quran n Hadith. Achieve fluency in speaking, reading, writing n understanding in Communication.	*Text Book *Quran *Mobile Chalk , Duster, PPT *Text Book *Videos on. . you tube *Project *PPT *Text Book *Pictures n . References *Smart . board *Text Book *Youtube *Smart . board	* Reading Practice * Recitation of . Verses *Memorize of Surah *Practice of saying. Dialogue between two students. *Oral Test. . conducted Internal assessment test conducted. *Internal Assessment. Conducted. * MCQs * Take out side to students n clean public places. Activities of cleanliness have been taken in the college campus. *Practice of saying. Dialogue between two students. *Oral Test. . conducted	Students know the correct Qirat of verses. And participating in various competitions n won Certificates n prizes. Interested candidates take part in Diploma in Translation class. They got the jobs in International companies with good salary. To train the students to communicate in Arabic Students came to know the Importance of hygiene and sanitations. Define food safety. Understands the importance of personal hygiene. In Clean environment their self confidence gives a fresh and good look to the surroundings. Ability to communicate effectively in Arabic Reading, Writing, speaking and listening. Expanded career opportunities in field like

					translation, international relations, education, business, and journalism.
Unit: III Grammar Word and its kinds Noun	3/9/2024 To 28/9/2024	Learn the fundamentals of the language. Parts of speech.	Text books Projector Board Charts	Test conducted Given more exercises on the topic	Able to distinguish different alphabet. Develop the correct pronunciation. Understand the basic grammar. Develop reading skill. Enhances the skill of writing of Arabic language.
Unit: IV History of Arabic literature Pre- Islamic Period	1/10/2024 To 5/9/2024	Students came to know the history of pre – Islamic period. They know the culture of Arab before Islam.	Text books PPT Smart board Charts	Internal Assessment Test. Communication practice with students to improve their skill.	Students understand the customs and cultures of the Arabs. Familiar with the social environment of Arabs. Estimate the concepts of Muallaqath.Educate them selves with the lessons gained from the Eminent poets of the Jahiliya.
Characteristic features of Arabic Language		They came to know in detail about the importance of Arabic language, about the alphabet of this language .how to write this language. This language is chosen by Allah. Arabic is rich language n high demand in western countries. It i.	Text Books PPT Maps Charts Videos	Internal Assessment Test Visit Library	Students learn The benefits of learning Arabic language Arabic language Boosts brain power Improve memory Enhances the ability to multi task. Arabic is one of the most beautiful language in the world.

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DEPARTMENT OF ARABIC

Teaching Lesson Plan

2024 - 2025

Subject: Arabic

Semester - III

Class: Degree II Year

Name of the Faculty: Mr. Faiyaz Uddin

Topic/Unit/Chapter	No of Classes (From June to Nov.	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I Classical Prose 1. Al Quran Al Kareem	1/6/2024 To 29/6/2024	The aim of the subject is to make the student aware about the knowledge of Quran, its subject parts, surah's etc.	Text book Quran Black board Mobile	Internal assessment test Home work Reading practice	Students came to know about the Quran with its topics, subjects, parts, surah's etc.
2. Al Hadees AnnabawiAsshareef		The aim of this lesson is to make aware the students to know about the Hadees and its importance.	Text book Hadees PPT	Internal assessment Memorize of Ahadees	They came to know about the importance of Hadees.

Unit II **Modern Prose** **1.What do you like to become**		**Students came to know how to make a conversation in Arabic Language.**	**Text book** **PPT** **Youtube**	**Internal assessment** **Home work**	**Students came to know about dialogues as well as speaking in Arabic language.**
2.Al Amanah	**July**	**They came to know about the importance of honesty and have to apply in their life.**	**Text book** **Home work** **You tube**	**Internal assessment** **Home work**	**They came to know about the importance of honesty and how to apply it.**
Unit III **Grammar** **1. Al Fail Al Muzare Al Mansuub**	**August**	**The aim of this lesson is to make perfect in Arabic Grammar at verbs.**	**Text book** **Grammar practices sets**	**Internal assessment** **Home work**	**They came to know about the Arabic Grammar and its uses.**
2.Al Fail Al Muzare Al Majzuum		**They came to know about the Arabic Grammar.**	**Text book** **Black board**	**Internal assessment** **Home work**	**Students came to know about the Grammar of Arabic.**

Unit IV **History of Arabic Literature** 1. Arabic literature in Umayyad period. 2. A} Jareer B} Akhtal A) Farazdaq B) Umar IbnAbiRabiah	September October November	Students came to know about the Arabic Literature in the period at Umayyad speaking in poetry. The aim at the lesson is to make students aware about the famous poets of Umayyad period. They came to know about the poets and poetry in Umayyad period. I , III , V Sem. Examinations	Text book Smart board PPT Maps Text book Black board Videos Text book Black board	Internal Exam Chrome Internal assessment Home work Internal assessment Home work	Students came to know about the Arabic Literature in Umayyad period. Students came to know about the poets and their poetry. They came to know about the poets and their poetry style.

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DEPARTMENT OF ARABIC

Teaching Lesson Plan

(II , IV & VI Semester)

Academic Year 2024 – 2025

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DEPARTMENT OF ARABIC

Teaching Lesson Plan

2024 - 2025

Subject: ARABIC

Semester: II

Class: Degree I Year

Name of the Faculty: Dr.Anjum Fatima

Topic/Unit/Chapter	No of Classes (From June to Nov.)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I **Classical Prose** 1. Al Quran Al Kareem القران الكريم a) Suratul Qadr سورة القدر b) Suratul Zilzal سورة الزلزال c) Suratu Al Humaza سورة الهمزه	11/12/2024 To 31/12/2024	The aim of the subject is to make the student aware about the knowledge of Quran, its subject parts, surah's etc.	Text book Quran / Visual Aids. Charts / Smart board / Group Activities / Peer Learning	Internal assessment test Home work Reading practice	Students came to know about the Quran with its topics, subjects, parts, surah's etc.

Unit II **Modern Prose** 1.The Industrial Exhibition المعارض الصنا عى	**2 / 1 / 2025** **To** **20 / 1 / 2025**	The aim of this lesson is to make aware the students about Industrial Exhibition. Promote Products, Establish new business, build connections with industry leaders, and Display the latest technologies, products. Provide learning opportunities, Encourage interest in the industry among student's n job seekers.	Text book PPT / Slides/Audio Aids. Speakers / Microphones Projectors and Smart boards	Internal assessment Visitor No.	They came to know How to Increased Sales , New Partnerships, Economic Growth, Customer Relations, Improved Reputation, Skill Development, Industry Awareness. Stakeholder ect.
2. The VII Naizam Mir Osman Ali Khan النظام السابع مير عثمان على خان		Students came to know about Mir.Osman Ali Khan, had several objectives during his reign, and focused on government. Modernization of Hyd. State. Established modern educations Improve the state's development. Economic and Social Welfare. Cultural and religious harmony.	Text book PPT / Digital Aids / Laptops / Tablets	Internal assessment Home work	Students came to know about Mir.Osman Ali Khan's reign can be summarized as Modern Infrastructure, Economic Prosperity and Cultural Legacy.
3. Duroosul Al Lugha Al Arabia Part – 1 a) Lesson – 3 b) Lesson – 4	**21 / 1 / 2025** **To** **5 / 2 / 2025**	Learning Arabic Translation helps bridge language barriers, effective communication, Understanding between Arabic speaker's .Enhancing Professional and personal opportunities, International business, education, and translation services.	Text book PPT'S Laptops Videos / E – Books / Guest Lectures	Internal assessment Home work	Improved language proficiency, Learners gain a deeper understanding of Arabic vocabulary, grammar, cultural, Enhanced Translation Skills. Abel to translate texts and conversations. able to work as a translator not only in India but in gulf also.

Unit III **Grammar** 1. Nominal Sentence الجملة الاسمية 2. Verbal Sentence الجملة الفعلية 3. Adjective Phrase المركب التو صيفى 4. Possessive Phrase المركب الاضافى 4. Pronoun الضمير	6 / 2 / 2025 To 20 / 2 / 2025	Learning Grammar offers numerous benefits. Improved Communication Skill. Enhanced Writing Skill. Better Reading and Listening Skills. Confidence in Communication. Effective Storytelling.	Text book Smart board Guest Lectures Work shops Group Activities	Internal assessment Home work	Enhanced Communication Skills. Increased Confidence and Professionalism. Improves the ability to constrict clear correct and effective Sentences, Ensuring better understanding and expression in both spoken and written language.
Unit IV History of Arabic Literature 1. Influence of the Quran on Arabic Literature اثر القران على الادب العربى 2. Compilation of Quran تدوين القران 3. Poetry in Islamic Period الشعر فى العصر الاسلا مى	21 / 2 / 2025 To 22 / 2 / 2025	Learning about Quran serves several spiritual, moral objectices. Strengthening Faith. Strengthening connection with Allah. Gaining Knowledge. Learning Islamic Principal. Exploring the stories of Prophets. Preparing for the Afterlife. Improving Worship. Achieving Peace and Contentment.	Text book White board Videos / Field Trips / Classroom Decor / Self study / Summaries / notes / E-Books	Internal assessment Home work	Outcomes of Learning the Quran. Spiritual Growth , Moral Development , Guidance in Life , Knowledge of Islam , Inner Peace , Unity , Empowerment for Dawah.

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DEPARTMENT OF ARABIC

Teaching Lesson Plan

2024 - 2025

Subject: ARABIC
Class: Degree III Year

Semester: V,
Name of the Faculty: Azar Hussain

Topic/Unit/Chapter	No of Classes (From June to Nov.)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT - 1 : PROSE = قسم النثر 1. Hero of Independence بطل الحرية 2. Sarojini Naidu (Nightingale of India) سرو جنيى نائيدو (بلبل الهند 3. Durus al lughat al arabiyya (Part-1) دروس اللغة العربية - الجزءالاول *A) Lesson No. 9* الدرس التاسع *B) Lesson No. 10* الدرس العاشر	01/06/2024 TO 28/06/2024	It aims to explore the contributions of historical figures and enhance their Arabic language proficiency through the study of vocabulary, grammar, and sentence structures.	Text book Quran / Visual Aids. Charts / Smart board / Group Activities / Peer Learning	Internal assessment test Home work Reading practice	Students have gained an understanding of key historical figures, improved their Arabic language skills, and developed the ability to analyze and apply advanced grammar and vocabulary in both spoken and written forms.

UNIT - II: POETRY = قسم الشعر 1. The Knowledge العلم 2. My Language لغتى 3. The Star النجم	29/06/2024 TO 22/07/2024	The aim of this lesson is to make aware the students about the themes of knowledge, language, and stars in Arabic poetry to deepen their appreciation and analytical skills in the art form.	Text book PPT / Slides/Audio Aids. Speakers / Microphones Projectors and Smart boards	Internal assessment Home work	Students have explored the concepts of knowledge, language, and stars, while developing their poetic understanding and ability to analyze and interpret themes in Arabic poetry.
UNIT - III: HISTORY OF ARABIC LITERATURE. 1. Development Of Prose In Abbasid Period تطور النثر في العصر العباسي 2. Prominent Writers Of Abbasid period ابرز الكتاب في العصر العباسي a) *Al Jahiz* الجاحظ b) *Ibn Al Muqaffa* ابن المقفع c) *Badi uz Zaman Al Hamdani* بديع الزمان الهمدانى d)*AbuMuhammad Qasim Al Hariri* ابو	23/07/2024 TO 21/08/2024	Students came to know about the development of prose and explored the works and contributions of key Abbasid writers to gain a comprehensive understanding of Arabic literary history.	Text book PPT'S Laptops Videos / E – Books / Guest Lectures	Internal assessment Home work	Students have examined the evolution of Arabic prose during the Abbasid period and gained insights into the contributions of prominent writers, deepening their understanding of classical Arabic literature.

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DEPARTMENT OF ARABIC

Teaching Lesson Plan

2024 – 2025

Subject: **ARABIC**

Semester: **VI**

Class: **Degree III Year**

Name of the Faculty: **Afreen Fatima**

Topic/Unit/Chapter	No of Classes (From Dec. to Feb.)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I **Prose قسم النثر** 1.DURUS AL LUGHAT ARABIA(Part 1) دروس اللغة العربيه الجزء الاول A) Lesson No 11 الدرس الحادي عشر B) Lesson No 12 الدرس الثاني عشر C) Lesson No 13 الدرس الثالث عشر	11/12/2024 To 31/12/2024	The aim of the subject is to make the student aware about the Translate of Quran, Learning Arabic Translation helps bridge language barriers, effective communication, Understanding between Arabic speaker's .Enhancing Professional and personal opportunities, International business, education, and translation services.	Text book Quran / Visual Aids.Charts / Smart board / Group Activities / Peer Learning	Internal assessment test Home work Reading practice	Improved language proficiency, Learners gain a deeper understanding of Arabic vocabulary, grammar, cultural, Enhanced Translation Skills. Abel to translate texts and conversations. able to work as a translator not only in India but in gulf also. Improved language proficiency, Learners gain a deeper understanding of Arabic vocabulary, grammar, cultural, Enhanced Translation Skills. Abel to

2.Caliph Of Islam خلفاء الرشدين A)HazrathAbubakarsiddiq(ra) B)HazrathumaribnKhattab(ra) C)HazrathUthmanIbnAffan(ra) D) Hazrath Ali abiTalib(ra) **Unit II** **COMPOSITIONS** المقالات الوجيزة A) اهمية اللغة العربية B) عظمة الوالدين C) ادب الاستاذ D) كليتي **Unit III** **History of Arabic Littreture** 1.Islamic Literature During Abbasid Period الادب الاسلامي في العصر العباسي 2.The Most Prominent Muaddiseen Of Abbasid Period ابرز المحدثين في العصر العباسي A.ImamMalik امام مالك B. Imam Bukhari امام بخاري C.Imam Muslim امام مسلم	**2 / 1 / 2025** **To** **20 / 1 / 2025** **21/1/2025** **To** **5/2/2025** **6 / 2 / 2025** **To** **20 / 2 / 2025** **21/2/2025** **To** **22/3/2025**	The aim of the subject is to make the student aware about the Caliph of Islam LearningCompositions offers numerous benefits. Improved Communication Skill. Enhanced Writing Skill. Better Reading and Listening Skills. Confidence in Communication. Effective Storytelling Students came to know about the development of Arabic Literature of Muhaddiseen. The aim of the lesson is to make students aware about the famous Muhaddiseen	Text book PPT / Slides/Audio Aids. Speakers / Microphones Projectors and Smart boards Text book Smart board Guest Lectures Work shops Group Activities Text book Smart board Guest Lectures Work shops Group Activities	Internal assessment Visitor No. Internal assessment Home work Internal assessment Home work Reading practice	translate texts and conversations. able to work as a translator not only in India but in gulf also. Enhanced Communication Skills. Increased Confidence and Professionalism. Improves the ability to constrict clear correct and effective Sentences, Ensuring better understanding and expression in both spoken and written language. Outcomes of Learning the Hadees Spiritual Growth , Moral Development , Guidance in Life , Knowledge of Islam , Inner Peace , Unity , Empowerment for Dawah.

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Teaching Lesson Plan Format 2024-25 DEPARTMENT OF URDU

Subject: URDU **Semester:-I**

Class: B.Com (All Groups) **Name of the Faculty: Dr. Wajida Begum**

Topic/Unit/ Chapter	No. of Classes	Objectives/ مقاصد	Teaching Aid Used	Assessment	Outcomes
Unit -I ((POETRY, POEMS , PROSE).)	24/7/24 To 17/8/24	پڑھا کو اسلوب اور یزندگ حالات یک شاہ قطب یقل محمد .ایگ ای یکروای حیتشر یک غزلوں دونوں یک ان یہ ساتھ .یگیٔ کلام کے یشاعر اور شاعر کو علموں طالب سے جس .گا ہو انداز ہ کا ائیخصوص یک کو اسلوب اور یزندگ حالات یک یاباد اکبر ریٹنظ .ایگ ای سمجھا شیپ خلاصہ کا " دیتوح" نظم یگیٔ ید ریم نصاب .ایگ ایک مر اور اسلوب یک ریٹنظ کو علموں طالب سے جس .یگ ملے مدد ریم سمجھنے کو الیخ یکز اسلوب اور یزندگ طالب یک یسف وی احمد مشتاق شامل ریم نصاب علاوہ کے اس سے ایک شیپ خلاصہ کا ماریب گر ےیپڑیٔ" ہیانشائ .ایگ	Text book, Black board Images PPt etc	Oral Test & Written test	• ادیب و شعراء کی حالت زندگی سے طالب علموں کو واقف کرایا گیا، جس سے ادیب کو شعر کی شخصیت و فن کا طالب علموں کو اندازہ ہوگا. • اصناف ادب کے بارے میں طالب • علموں کو معلومات فراہم ہوں گی۔
Unit-2 (PROSE, POETRY, POEMS)	18/8/24 To 6/9/24	• ملا وجہی کی حالات زندگی و اسلوب پر روشنی ڈالی گئی، • داستان کا تعارف پیش کیا گیا ، • داستانمنتخب سب رس کا خلاصہ پیش کیا گیا ۔ • جگت موہن روان کے بارے مینپڑھایا گیا اور نصاب میں شامل رباعی کی تشریح کی گئی۔ • ادب و شعراء بکے اسلوب کا جائزہ لیا گیا. • رپورتاژ کی اہمیت و افادیت پر روشنی ڈالی گئی۔			• *طالب علموں کے اصناف ادب کے بارے میں معلومات فراہم ہوں گی۔ • * شعراء و ادیب کی شخصیت کا اندازہ ہوگا جس سے شعراء و ادیب کیب انفرادیت و خصوصیات کا پتہ چلے گا. • *شعراء و ادیب کے عہد کے مزاج کا پتہ چلے گا.

Unit -3 (Poetry Gazals, Poems)	7/9/24 To 25/9/24	• اکبر آلہ آبادیؔ کی حالالت زندگی اور اسلوب پر روشنی ڈالی گئی۔ • قطعہ کا تعارف کرایا گیا ۔ • نصاب میں شامل اکبر والہ ابادیکا قطعہ کی تشریح کرائی گئی۔ • میری انیسؔ کی حالات زندگی و اسلوب پر روشنی ڈالی گئی۔ • میرؔ انیس کی رباعی کی تشریح کرائی گئی۔ • صنف انشائیہ کا تعارف پیش کیا گیا ۔ • ابو الکلام آزاد کا سوانح و اسلوب پیش کیا گیا ۔ • انشائیہ ذوق چائے نوشی ، کا خلاصہ پیش کیا گیا۔			• طالب علموں کو شعراء یکی انفرادیت کا اندازہ ہوگا۔ • قطعہ و انشائیہ جیسے اصناف کے بارے میں طالب علموں کو معلومات ہوں گی۔
Unit -4 (PROSE, POETRY, AND POEM)	26/9/24 15/10/24	• نصیر الدین ہاشمی کی سوانح و اسلوب پلر روشنی ڈالی گئی۔ • مضمون کا تعارف پیش کیا گیا ۔ • مضمون قدیم اردو (دکنی)میں نیچرل شاعری کا خلاصہ پیش کیا گیا ۔ • جفت موہن رواں کی حالات زندگی و اسلوب پر روشنی ڈالی گئی، • رواں کی رباعی کی تشریح کی گئی۔			• طالب علموں کو صنف مضمون سے متعارف کروایا گیا ۔ رباعی گو شعراء کی انفرادیت و اہمیت پر روشنی ڈالی گئی۔

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Teaching Lesson Plan Format 2024-25

Subject: URDU **Semester:-2**

Class: B.Com (All Groups) **Name of the Faculty: Dr. Wajida Begum**

Topic/Unit/Chapter	No. of Classes	Objectives/ مقاصد	Teaching Aid Used	Assessment	Outcomes
Unit -1 (Poetry Gazals, Poems)	07/12 To 24/12/24	• ولیؔ دکنی کی حالاتِ زندگی اور اسلوب پر روشنی ڈالی گئی۔ جس سے شاعر کے عہد و مزاج سے طالب علم واقف ہوں گے۔ ولیؔ کی دونوں غزلوں کی تشریح کروائی گئی جس سے شاعر کی شخصیت و فکر کا اندازہ ہوگا۔ • اکبر الہ آبادی کی حالاتِ زندگی اور اسلوب کے بارے میں طالب علموں کو پڑھایا گیا۔ ساتھ ہی نصاب میں شامل نظم ''مستقبل'' کا خلاصہ پیش کیا گیا۔ • شعرا کی شخصیت و فکر و فن کا اندازہ طالب علموں کو ہوگا۔	Text book, Black board Images PPt etc	Oral Test & Written test	• طالب علموں کو شعرا کے عہد و مزاج سے واقف کرایا گیا۔ • شعرا کے عہد کے ساتھ اس کے مزاج سے واقف کروانے سے شعرا کی شخصیت کا اندازہ ہوگا۔ • اردو غزل کے ارتقا کا اندازہ ہوگا۔
Unit-2 (Prose and Gazals)	25/12/24 To 15/01/24	• امتیاز علی تاجؔ اور بیگم قدسیہ زیدیؔ کے بارے میں معلومات فراہم کی گئی۔ ساتھ ہی ان کے اسلوب پر روشنی ڈالی گئی ۔ نصاب میں شامل ڈراما ''تلاش'' کا خلاصہ پیش کیا گیا۔ • آتشؔ کی حالاتِ زندگی اور اسلوب پر روشنی ڈالی گئی۔ ساتھ ہی ان کی دونوں غزلوں کی تشریح کی گئی۔ • مخدومؔ کی حالاتِ زندگی اور اسلوب پر لکچچر دیا گیا۔ • نصاب میں شامل مخدومؔ کی دونوں کی شریح کی گئی۔			• طالب علموں کو شعرا کے عہد و مزاج سے واقف کرایا گیا۔ • شعرا کے عہد کے ساتھ اس کے مزاج سے واقف کروانے سے شعرا کی شخصیت کا اندازہ ہوگا۔ • اردو غزل کے ارتقا کا اندازہ ہوگا۔ •
Unit -3 (Poetry Gazals, Poems)	17/1/24 To 30/1/24	• مرزا غالبؔ کی حالاتِ زندگی اور ان کے کلام کی خصوصیات و انفرادیت پر روشنی ڈالی گئی۔ نصاب میں شامل غالبؔ کی دونوں غزلوں کی تشریح کروائی گئی۔ • غالبؔ کے عہد کے تقاضوں پر روشنی ڈالی گئی۔			• طالب علموں کو اردو ادب کے بارے میں معلومات ہوں گی۔ • طالب علموں کو شعرا اور شعرا کی انفرادیت و اسلوب کو سمجھنے میں آسانی ہوگی

		• علامہ اقبالؒ کی حالات زندگی کے ساتھ ساتھ ان کے مزاج و اسلوب پر روشنی ڈالی گئی۔ اور ان کی نظم ''فنون لطیفہ'' کیا گیا۔ مخدومؔ کی حالات زندگی واسلوب سے واقف کرایا گیا۔ مخدوم کی غزل کی تشریح کرائی گئی۔			• عزا کے عہد اور اس عہد کے مزاج کو سمجھنے میں مدد ملے گی •
Unit -4 (Prose and Poem)	1/2/24 To 18/2/24	• الطاف حسین حالیؔ کی لکھی ہوئی سوانح ''مرزا غالبؔ کے اخلاق و عادات'' کا خلاصہ پیش کیا گیا۔ • صنف سوانح کے پس منظر و پیش منظر پروشنی ڈالی گئی۔ • ساحر لدھیانوی کی حالات زندگی و اسلوبیات طالب علموں کو واقف کرایا گیا۔ نصاب میں شامل نظم ''اے شریف انسانو!'' کا خلاصہ پیش کیا گیا۔ • مجتبیٰ حسین کی حالات زندگی اور اسلوب پروشنی ڈالی گئی۔ • صنف خاکہ کا تعارف پیش کیا گیا۔ • خاکہ ''سلیمان اریب'' کا خلاصہ پیش کیا گیا۔			• طالب علموں کو شعرا کے عہد و مزاج سے واقف کرایا گیا۔ • شعرا کے عہد کے ساتھ اس کے مزاج سے واقف کروائے سے شعرا کی شخصیت کا اندازہ ہوگا۔ • اردو غزل کے ارتقا کا اندازہ ہوگا۔

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Teaching Lesson Plan Format 2024-25

Subject: URDU **Semester:-3**

Class: B.Com (All Groups) **Name of the Faculty: Dr. Wajida Begum**

Topic/Unit/ Chapter	No. of Classes	Objectives/ مقاصد	Teaching Aid Used	Assessment	Outcomes
Unit -1 ((POETRY, POEMS , PROSE).)	6/6/24 To 27/6/24	• جاں نثار اختر کی حالاتِ زندگی اور اسلوب پر روشنی ڈالی گئی۔ • مثنوی کا تعارف کرایا گیا • مثنوی '' امن نامہ'' کا خلاصہ پیش کیا گیا۔ • رباعی تعارف پے شکیا گیا ۔ • رباعی گو شعراء پر روشنیب ڈالی گئی، • میرؔ انیس کے گیارے میں طالب علموں کو واقف کرایا گیا۔ • نصاب میں شاکل رباعی کی تشریح کی گئی • رپورتاژ کا تعارف پیش کیا گیا ۔ • رپورتاژ ''کل ہند کانفرنس'' کا خلاصہ پیش کیا گیا ۔ • • ملا وجہی کی حالات زندگی و اسلوب پر روشنی ڈالی گئی، • داستان کا تعارف پیش کیا گیا ، • داستانمنتخب سب رس کا خلاصہ پیش کیا گیا ۔ • جگت موہن رواںؔ کے بارے مینپڑھایا گیا اور نصاب میں شامل رباعی کی تشریح کی گئی۔ • ادب و شعراء بکے اسلوب کا جائزہ لیا گیا۔ رپورتاژ کی اہمیت و افادیت پر روشنی ڈالی گئی۔	Text book, Black board Images PPt etc	Oral Test & Written test	• ادیب و شعراء کی حالتِ زندگی سے طالب علموں کو واقف کرایا گیا، جس سے ادیب کو شعر کی شخصیت و فن کا طالب علموں کو اندازہ ہوگا۔ • اصناف ادب کے بارے میں طالب • علموں کو معلومات فراہم ہوں گی۔
Unit-2 (PROSE, POETRY, POEMS)	27/6/24 To 15/7/24	• ملا وجہی کی حالات زندگی و اسلوب پر روشنی ڈالی گئی، • داستان کا تعارف پیش کیا گیا ، • داستانمنتخب سب رس کا خلاصہ پیش کیا گیا ۔ • جگت موہن رواںؔ کے بارے مینپڑھایا گیا اور نصاب میں شامل رباعی کی تشریح کی گئی۔ • ادب و شعراء بکے اسلوب کا جائزہ لیا گیا۔ • رپورتاژ کی اہمیت و افادیت پر روشنی ڈالی گئی۔			• *طالب علموں کے اصناف ادب کے بارے میں معلومات فراہم ہوں گی۔ • * شعراء و ادیب کی شخصیت کا اندازہ ہوگا جس سے شعراء و ادیب کیب انفرادیت و خصوصیات کا پتہ چلے گا۔ • *شعراء و ادیب کے عہد کے مزاج کا پتہ چلے گا۔

Unit -3 (Poetry Gazals, Poems)	16/7/24 1/6/24	• اکبر آلہ آبادیؔ کی حالالت زندگی اور اسلوب پر روشنی ڈالی گئی۔ • قطعہ کا تعارف کرایا گیا ۔ • نصاب میں شامل اکبر ؤالہ ابادیکا قطعہ کی تشریح کرانی گئی۔ • میری انیسؔ کی حالات زندگی و اسلوب پر روشنی ڈالی گئی۔ • میرؔ انیس کی رباعی کی تشریح کرانی گئی۔ • صنف انشائیہ کا تعارف پیش کیا گیا ۔ • ابو الکلام آزاد کا سوانح و اسلوب پیش کیا گیا ۔ • انشائیہ ذوق چائے نوشی ، کا خلاصہ پیش کیا گیا۔			• طالب علموں کو شعراء ہکی انفرادیت کا اندازہ ہوگا۔ • * قطعہ و انشائیہ جیسے اصناف کے بارے میں طالب علموں کو معلومات ہوں گی۔
Unit -4 (PROSE, POETRY, AND POEM)	02/8/24 To 28/8/24	• نصیر الدین ہاشمی کی سوانح و اسلوب پلر روشنی ڈالی گئی۔ • مضمون کا تعارف پیش کیا گیا ۔ • مضمون قدیم اردو (دکنی)میں نیچرل شاعری کا خلاصہ پیش کیا گیا ۔ • جفت موہن رواں کی حالات زندگی و اسلوب پر روشنی ڈالی گئی، • رواں کی رباعی کی تشریح کی گئی۔			• طالب علموں کو صنف مضمون سے متعارف کروایا گیا ۔ رباعی گو شعراء کی انفرادیت و ابمیت پر روشنی ڈالی گئی۔

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Teaching Lesson Plan Format 2024-25

Subject: URDU **Semester:-4**

Class: B.Com (All Groups) **Name of the Faculty: Dr. Wajida Begum**

Topic/Unit/ Chapter	No. of Classes	Objectives/ مقاصد	Teaching Aid Used	Assessment	Outcomes
Unit -1 (Poetry , Poems Prose)	7/12/24 To 24/12/24	• ذوق دہلوی کی سوانح و اسلوب پیش کیا گیا . • قصیدہ کا تعارف پیش کیا گیا • نصاب میں شامل قصیدہ ، درخشان حمید الدولہ' کا خلاصہ پیش کیا گیا. • نظیرؔ احمد کی سوانح و اسلوب سے طالب علموں کو واقف کرایا گیا. • ڈپٹی نظری احمد کا ناول ' نصوح اور سلیم کی گفتگو ، کا خلاصہ پیش کیا گیا. • فرحت اللہ بیگ کی حالاتِ زندگی اور اسلوب پر روشنی ڈالی گئی. • طنز و مزاح کا تعارف پیش کیا گیا . • مردہ بد ست زندہ '' کا خلاصہ پیش گیا گیا .	Text book, Black board Images PPt etc	Oral Test & Written test	• شعراء کی حالات زندگی و اسلوب سے طالب علموں کو اس عہد کو سمجھنے میں آسانی ہوگی. • اصناف ادب سے طالب علم واقف ہوں گے. • اصناف ادب کو سمجھنے سے اس عہد کے مزاج و حالات کو سمجھنے میں آسانی ہوگی.
Unit-2 (Poetry , Poems Prose)	25/1/24 To 5/1/24	• الطاف حسین حالیؔ کی سوانح و اسلوب پر روشنی ڈالی گئی . • رباعی کا تعارف پیش کیا گیا . • حالیؔ کی رباعی تشریح کروائی گئی. • صفیہ اخترؔ کی حالات زندگی و اسلوب کے بارے میں معلومات فراہم کی گئی. • امجد حیدر آبادی کا تعارف پیشکیا گیا. • نصاب میں شامل امجد حیدرآبادی کی رباعی کی تشریح پیش کی گئی.			• * طالب علموں کو شعراء کی سوانح سے اس عہد کا اندازہ ہوگا. • طالب علم اصنفِ ادب سیواقف ہوں گے • * شعراء مصنف کی شخصیت و فکر سے واقف ہوں گے .
Unit -3 (POETRY, POEMS , PROSE)	17/1/24 30/1/24	• الطاف حسین حالیؔ کی سوانح و اسلوب پر روشنی ڈالی گئی . • رباعی کا تعارف پیش کیا گیا .			• طالب علموں کو اردو ادب کے بارے میں معلومات ہوں گی. • طالب علموں کو شعرا اور شعرا کی انفرادیت و

		• حالیؔ کی رباعی تشریح کروانی گئی۔ • صفیہ اخترؔ کی حالات زندگی و اسلوب کے بارے میں معلومات فراہم کی گئی۔ • امجد حیدرآبادی کا تعارف پیشکیا گیا۔ • نصاب میں شامل امجد حیدرآبادی کی رباعی کی تشریح پیش کی گئی۔			اسلوب کو سمجھنے میں آسانی ہوگی • عرا کے عہد اور اس عہد کے مزاج کو سمجھنے میں مدد ملے گی
Unit -4 (Poetry Gazals Prose)	1/2/24 To 18/2/24	• میر انیسؔ کی حالات زندگی و اسلوب سے طالب علموں کو واقف کرایا گیا۔ • صنف مرثیہ کا تعارف پیش کیاگیا ۔ • انیس کا مرثیہ کی تشریح کرانی گئی۔ • الطاف حسین حالیؔ کی رباعی کی تریح کروانی گئی ۔ • حالیؔ کی سوانح وانفرادیت پر روشنی ڈالی گئی ۔			• صنف رباعی و مرثیہ کے بارے میں معلومات فراہم ہوں گی • شعرا کے عہد سے واقف ہو کر اس عہد کے مزاج سے طالب علم واقف ہونگے۔

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Teaching Lesson Plan Format 2024-25

Subject: Urdu **Semester: 5th**

Class: B.A HPML SL **Name of the Faculty: Dr Abdul Mogni Siddiqi HOD Urdu**

Topic/Unit/Chapter	No. of Classes (From ------- to------)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit – I: **Prose: Critical analysis of the lessons** 1. Funoon e Latifa 2. Adab Kiya Hai 3. Afsana (Short Story	**6/6/24** **To** **25/6/24**	اس یو نٹ میں طلبا کو اردو ادب سے متعلق جانکاری دی جائیگی۔ ادب سے متعلق تعریف سمجھائی گئی۔ اس یونٹ میں طلبا کو افسانے کی ابتدا و ارتقا ء کے بارے میں وضاحت کی گئی۔	Black board Text book PPT etc	Oral and Written test	اس یونٹ میں طلبا کو افسانے کی ابتدا و ارتقا ء کے بارے میں وضاحت کی گئی۔
Unit-II **Unit – II:** (18 Hours) 1. Adab aur Haqeeqat enigar 2. Shairi 3. Study of Poetry structure, concept, techniques and different styles 4. Study of different types of Short Stories and Essays	**26/6/24** **To** **15/7/24**	اس یو نٹ میں طلبا نظم کی تعریف و تاریخ کے بارے میں سمجھا یا گیا۔ طلبا کو نظم و نثر میں فرق بھی بتا یا گیا۔	Black board Text book PPT etc	Oral and Written test	اس یو نٹ میں طلباکو نظم کے مختلف ہیئوں کو سمجھا یا گیا۔ اورساتھ نثر کے مختلف خصوصیات کے بارے میں جانکاری حاصل کی

Unit-III : 1. Nasr 2. Dastaan 3. Study of both lessons: Two types of Nasr *a)* Plane Prose *b)* Literary Prose *c)* Two types of Dastaan: Manzoom and Nasri Dastaan ❖	**16/7/24** **To** **1/8/24**	اس یو نٹ میں طلباکو نظم کے مختلف ہیتوں کو سمجھا یا گیا. اورساتھ نثر کے مختلف خصوصیات کے بارے میں جانکاری حاصل کی .	Black board Text book PPT etc	Oral and Written test	ےاس یونٹ میں طلبا کو 1857سے قبل کے حالات زندگی کے علاوہ داستان کی خصوصیات سمجھائی گئی۔ ے طلبا نے غدر سے پہلے کے سیاسی و سماجی حالات کو سمجھا اور اس دور میں لکھے جانے والے داستانوں کے فرق کو بھی جانا
Unit – IV: (18 Hours) 1. Novel 2. Drama 3. Study of different techniques of Novel and Drama 4. Inshaiya (Essay)	**5/8/24** **to** **20/8/24**	اس یو نٹ میں طلبا کو ناول کی ابتداء و ارتقا کے بارے میں معلومات فراہم کی گئیں طلبا نے اردو ڈرامہ کی تعریف و تاریخ کو بھی سمجھا.			اس یونٹ میں طلبا کو اردو ناول اور ڈارمہ کے فنی جانزے سے واقف کر وایا گیا. طلبا نے انشائیے کی تعریف تاریخ کو سمجھا.

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Teaching Lesson Plan Format 2024-25

Teaching Lesson Plan Format

Subject: Computer SL **Semester: 6th**

Class: B.A **Name of the Faculty :Dr Abdul Mogni Siddiqi**

Topic/Unit/Chapter	No. of Classes (From ------- to------)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-I Urdu **Unit – I:** (18 Hours) 1. Urdu Zabaan ka Aaghaz 2. Qutub Shahi Daur 3. Adil Shahi Daur 4. Jamia Osmania ki Qidmat	2/12/24 To 24/12/24	اس یو نٹ میں طلبا کو اردو زبان کی تعریف کے علاوہ اردو کی ابتداء ارتقا کے بارے میں سمجھا یا گیا طلبا کو قطب شاہی عادل شاہی دور حکومت میں اردو زبان کی ابتدا و ارتقا کے بارے میں بھی سمجھا یا گیا			اس یونٹ میں طلبا نے اردو زبان کی ترقی کے بارے میں تفصیل سے سمجھا۔ انہیں سمجھا یا گیا کہ کس طرح اردو زبان نے بھارت میں ترقی حاصل کی۔ اس یو نٹ میں عادل شاہی و قطب شاہی دو رمیں اردو کی ابتداء و ارتقا پر سمجھا یاگیا۔ عادل شاہی اور قطب شاہی کے شعراء کے بارے میں بھی جانکاری حاصل کی۔ طلبا نے بھارت کی پہلی اردو یو نیورسٹی جامعہ عثمانیہ کی تعمیر اور تعلیم کے بارے میں جانکاری حاصل کی
Unit –II Urdu Inpage 1. Wali aur Ma'asereen 2. Meer o Sauda 3. Dabistan e Delhi	24/12/24 To 30/12/24	اس یو نٹ میں اٹھارہویں صدی کے سیاسی و سماجی مسائل کو واضح کیا گیا طلبا کو اس یونٹ کے ذریعہ 1700ء صدی کے مشہور شعرا کے علاوہ ولی دکنی کے ہم عصر شعرا ء کی حالات زندگی سمجھائی جائیگی			اس یو نٹ میں طلبا کو ولی دکنی کی شاعری کی خصوصیات کے علاوہ ان کے ہم عصر شعراء کی شاعری پر بھی روشنی ڈالی گئی
Unit III Translaton 1. Dabistan e Lucknow 2. Ghalib o Momeen 3. Fort William College 4. Taraqee Pasand Tahreek	1/1/24 To 17/1/24	اس یونٹ میں طلبا نے بھارت کے مختلف اسکولس یعنی (دبستانوں) کے بارے میں پڑھا ے طلبا نے غالب اور مومن کی شاعری کی خصوصیات کو سمجھا ے انگریزوں کے قائم کر دہ کالج فورٹ ولیم کالج کے قیام کے بارے میں طلبا نے جانکاری حاصل کی			اس یونٹ میں طلبا کو دابستان لکھنو کے شعرا کے بارے میں سمجھا یا گیا اور ساتھ ہی مرزا اسداللہ خاں غالب اور مومن خاں مومن کی شاعری کی خصوصیات سمجھائی گئی طلبا کو اس یونٹ میں ترقی پسند تحریک کی تعریف اور اس کے اغراض و مقاصد کے بارے میں سمجھا یا گیا فورٹ ولیم کالج کی اردو خدمات کے بارے میں وضاحت کی گئی

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Teaching Lesson Plan Format

DEPARTMENT OF TELUGU

Subject: Telugu

2024-25

Semester:1

Class: Degree 1st year

Name of the faculty: Shyamala

Topic/Unit/chapter	No. of Classes (From)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-1 ప్రాచీన కవిత్వం	3 3 3 3*3=9	శకుంతలోపాఖ్యానం గోడకుచికథ సంవరుణుడి తపస్సు	కవిపరిచయ చిత్రప్రదర్శన నల్ల బల్ల ప్రదర్శన నల్ల బల్ల ప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠం ద్వారా శకుంతల మరియు దుశ్యంతుడి కథ తెలుసుకున్నారు , సూర్యునిగొప్పతనం మరియు సంవరునిగొప్పతనం తెలుసుకున్నా

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UNIT-2 ఆధునికకవిత్వం	2 2 2 2 4*2=8	కాసులు రాజు-కవి గంగిరెద్దు జయభేరి	బంగారం చిత్రపటప్రదర్శన రాజు-కవి చిత్రపటప్రదర్శన గంగిరెద్దు చిత్రపటప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠం ద్వారా రాజు,కవి యొక్క గొప్పతనం తెల్సుకున గంగిరేడు విన్యాసాలు తెలుసుకున్నా
UNIT-3 ఉపవాచకం	6	రుద్రమదేవి	రుద్రమదేవి చిత్రపట ప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠం ద్వారా రుద్రమదేవి వీరత్వం , ధీరత్వం ,దీయసాహసాలు తెలుసుకున్నారు
UNIT-4 వ్యాకరణం	1 1 1 1 1 5*2=10	సంధులు సమాసాలు తెలుగువాక్యం పర్యాయపదాలు నానార్థలు	నల్ల బల్ల ప్రదర్శన నల్ల బల్ల ప్రదర్శన నల్ల బల్ల ప్రదర్శన నల్ల బల్ల ప్రదర్శన నల్ల బల్ల ప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠం ద్వారా భాషాంశాలుగురించి తెలుసుకున్నా

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DEPALTMENT OF TELUGU

Teaching Lesson Plan Format

Subject:Telugu

Semester:2

Class:Degree 1st year

Name of the faculty :Dasaram shyamala

opic/Unit/Chapter	No.of class	Objectives	Teaching aid used	Assessment	Outcomes
Init-1 ాచీన కవిత్వం	3 3 3 3*3=9	గజేంద్రమోక్షము హనుమత్ సందేశము సుభాషితములు	గజేంద్రుడూచిత్రపట ప్రదర్శన కవిచిత్రపటప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠం ద్వా గజేంద్రుడు కథ సారాం ,హనుమత్ సందేశం నీతి పద్యాల గురించి నేర్చుకున్నారు
Init-2 ధునిక కవిత్వం	2 2 2 2 2*4=8	స్నేహలాత దేవి లేఖ అంతర్నాధం "ప్ర" పంచపదులు అల్విదా	లేఖచిత్రపట ప్రదర్శన కవిచిత్రపటప్రదర్శన నీతిపద్యాల చిత్రపటప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠం ద్వా స్నేహితుల ధైర్యం గురించి, నీతిపద్యాల విలువలు నేర్చుకున్నారు
Jnit-3 చన విభాగం	2 2 2 2 2*4=8	యుగాంతం ఎంకన్న మామిడిపండు మా ఊరు పోయింది	కవిచిత్రపటప్రదర్శన మామిడిపండు చిత్రపటప్రదర్శన పల్లెటూరు చిత్రపటప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థులు ఈ పాఠం ద్వారా మామిడిపండ పుట్టుక గురించి , పల్లెటూరు గురించి తెలుసుకున్నారు
Jnit-4 వ్యాకరణాంశాలు ఛందస్సు)	2 2 2	ఛందస్సు	నల్లబల్ల చిత్రపట ప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థులు ఈ పాఠం ద్వారా పద్యాలక్షణాల వ్యాకరణాంశాలు ,ఛందస్సు గురించి తెలుసుకున్నారు

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Teaching Lesson Plan Format

DEPARTMENT OF TELUGU

Subject: Telugu

Semester:3

Class: Degree 2nd year

Name of the faculty: Shyamala

Topic/Unit/chapter	No. of Classes (From)	Objectives	Teaching Aid Used	Assess ment	Outcomes
Unit-1 ప్రాచీన కవిత్వం	3 3 3 3*3=9	ధర్మజుని వాక్చాతుర్యం విభీషణ శరణాగతి గుణానిధికత	ధర్మరాజు చిత్రపట ప్రదర్శన కవిచిత్రపట ప్రదర్శన నల్ల బల్ల ప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠం ద్వారా మహాభారతం ధర్మరాజు నడవడిని ధర్మరాజు ధర్మం విలువలను తెలుసుకున్నారు

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UNIT-2 ఆధునిక కవిత్వం	3 3 3 3*3=9	రైతు ప్రశస్తి గురుదక్షిణ గుడిసెలుకాలిపోతున్నాయి	రైతు చిత్రపట ప్రదర్శన ద్రోణాచార్యుడి చిత్రపట ప్రదర్శన నల్ల బల్ల ప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థులు రైతు గొప్పతనం ,విలువలు మరియు గురువుయొక్క గొప్పతనం గ్రహించారు
UNIT-3 ఛందస్సు	4 4 4*2=8	శబ్దాలం కారాలు అర్థాలంకారాలు	నల్ల బల్ల ప్రదర్శన నల్ల బల్ల ప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థులు పద్యం యొక్క అలంకారాలన నేర్చుకున్నారు

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Teaching Lesson Plan Format

DEPARTMENT OF TELUGU

Subject:Telugu

Semester:4

Class:Degree 2nd year

Name of the faculty:Dasaram shyamala

Topic/Unit/Chapter	No.of classes (From.....)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-1 ప్రాచీన పద్యభాగం	3 3 3 3*3=9	నారదగానమాత్సర్యం వాగ్దానభంగం నారసింహశతకం	నారదనీచిత్రపటప్రదర్శన శ్రీకృష్ణుడిచిత్రపటప్రదర్శన నల్లబల్ల ప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠంద్వారా నారదునిగొప్పదనం మరియు శ్రీకృష్ణుని గొప్పదనం మరియు నీతిపద్యాల గురించి తెలుసుకున్నారు
Unit-2 ఆధునికపద్యభాగం	3 3 3 3*3=9	నరుడనేను,నరుడనేను, అర్థగీతం, దేవరకొండదుర్గం	మానవునిచిత్రపటప్రదర్శన పేదవాడిచిత్రపటప్రదర్శన దేవరకొండదుర్గంచిత్రపటప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠంద్వారా నరుడి యొక్క జీవితం గురించి మరియు దేవరకొండ దుర్గం విశేషణం గురించి తెలుసుకున్నారు

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Unit-3 వచనవిభాగం	2 2 2 2 2 2*5=10	అర్ధరాత్రిఅరుణోదయం సిపిబ్రౌన్ సాహిత్య సేవ మనగ్రామనామాలు నివురుతొలిగిన నిప్పు కొండమల్లెలు	కవిచిత్రపటప్రదర్శన కవిచిత్రపటప్రదర్శన పల్లెగ్రామలచిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠంద్వారా కవి యొక్క గొప్పతనం, పలుగ్రామాల నామాల, రమణగొప్పతనం, భార్యాభర్తల అన్యోన్యత గురించి తెలుసుకున్నారు

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Teaching Lesson Plan Format

DEPARTMENT OF TELUGU

Subject: Telugu

Semester:5

Class: Degree 1st year

Name of the faculty: Shyamala

Topic/Unit/chapter	No. of Classes (From	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-1 కవితా ప్రక్రియలు	3 2 1 1 1 1 3*3=9	పద్యం పాట వచన కవితా లఘు కవితారూపాలు హైకూ నానీలు	నల్ల బల్ల కవిచిత్ర పటలు నల్ల బల్ల	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠం ద్వారా పద్యాలక్షణాలు గ్రహించ బడ్డాడు

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UNIT-2 తెలుగు వ్యాసం	2 2 2 3 1 5*2=10	వ్యాసం వ్యాసపరిణామ పద్ధతులు వ్యాసరచనా పద్ధతులు వ్యాసంలో వస్తువైవిధ్యం వ్యాసరచనలో భాష ప్రయోగాలు	నల్లబల్ల చిత్రపటాలు కవిచిత్రపటాలు నల్లబల్ల	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠం ద్వారా వ్యాసంలో మెళుకువలు నేర్చుకున్నారు
UNIT-3 వచన సాహిత్యం	2 2 2 2 2 5*2=10	అధ్యయన సంస్కృతి సాహిత్య అధ్యయనం ప్రయోజనాలు ముందుమాట పుస్తకసమీక్ష జానపదం	నల్లబల్ల కవిచిత్రపటాలు కవిచిత్రపటాలు పల్లె చిత్రపటాలు	Internal యూనిట్ పరీక్షా	విద్యార్థి ఈ పాఠం ద్వారా సంస్కృతీ సంప్రదాయాలు పుస్తకసమీక్ష జానపదం అంటేఏమిటి తెలుసుకున్నాడు

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Teaching Lesson Plan Format

DEPARTMENT OF TELUGU

Subject:Telugu

Semester:6

Class:Degree 3rd year

Name of the faculty :Dasaram shyamala

Topic/Unit/Chapter	No.of class	Objectives	Teaching aid used	Assessment	Outcomes
Unit-1 కవితాప్రక్రియలు	2 2 2 2 4*2=8	పద్యం పాట వచన కవిత లాగుకవితారూపాలు ఉర్దూకవితారూపాలు	కవిచిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన	Internal యూనిట్ పరీక	విద్యార్థులు ఈ పా ద్వారా పద్య ,పా యొక్క లక్షణాల నేర్చుకునారు
Unit-2 తెలుగు వ్యాసం	2 2 2 2 4*2=8	వ్యాసం వ్యాసపరిణామం వ్యాసరచన పద్ధతులు వ్యాసంలో వస్తువైవిధ్యం వ్యాసరచనలో భాషా ప్రయోగాలు	నల్లబల్ల చిత్రపటప్రదర్శన కవిచిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన	Internal యూనిట్ పరీక	విద్యార్థులు ఈ పా వ్యాసం యొక్క లక్షణాలు ,విశేషా నేర్చుకున్నారు
Init-3 చన సాహిత్యం	2 2 2 2 4*2=8	అధ్యయన సంస్కృతి సాహిత్య అధ్యయన ప్రయోజనాలు ముందుమాట పుస్తకాన జానపదం	నల్లబల్ల చిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన నల్లబల్ల చిత్రపటప్రదర్శన	Internal యూనిట్ పరీక	విద్యార్థులు ఈ పాఠం ద్వారా విద్యార్థి సంస్కృతి సంప్రదాయాలు గురించి పుస్తక సమీక్ష ,జానపదం పల్లెటూరు విశేషాలు నెర్చుకున్నారు

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DEPARTMENT OF HINDI

2024-2025

विषय: हिंदी

फैकल्टी का नाम: Mrs.Rehana

कक्षा: I Yr.(Deg.)

सेमेस्टर–1

Topic/Unit विषय/इकाई	No.of Classes कक्षाओं की संख्या	Subjectives विषय	Teaching Aids Used शिक्षण सामग्री	Assessments मूल्यांकन	Outcomes निष्कर्ष
Unit-I काव्य निधि गद्य दर्पण	3 7 5 4 2 1	1.उत्साह 2.चरित्र संगठन 3.बाज़ार दर्शन 4.भाभी 5.भारत में संस्कृति संगम 6. राष्ट्र का स्वरूप	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ जूम एप्प	आन्तरिक परीक्षा	छात्रों को विभिन्न अंशों पर जागृत किया गया।
Unit-II कथा सिंधु	6 7 3 2 2 2	1.सद्गति 2.छोटा जादूगर 3.सच का सौदा 4.प्रायश्चित 5.परदा 6.चीफ की दावत * व्याकरण	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ जूम एप्प	आन्तरिक परीक्षा	छात्रों को कथा सिंधु के विभिन्न पाठ की जानकारी दी गई तथा व्याकरण अध्ययन नियमों कि जानकारी प्राप्त।

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विषय: हिंदी

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फैकल्टी का नाम: Mrs.Rehana

सेमेस्टर–2

Topic/Unit विषय/इकाई	No.of Classes कक्षाओं की संख्या	Subjectives विषय	Teaching Aids Used शिक्षण सामग्री	Assessments मूल्यांकन	Outcomes निष्कर्ष
Unit-I इकाई-1 गद्य दर्पण	2 2 2	1.धरती का स्वर्ग 2.ताई 3.अंडे के छिल्के	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ जूम एप्प	आंतरिक मूल्यांकन	-छात्रों के करमीर का प्राकृतिक शोभा का प्रभावशाली मनोहारी चित्रण किया। मातृप्रेम को दर्शाया संयुक्त परिवार का प्रेम महत्व बताय है।
Unit-II इकाई-2 गद्य दर्पण	6 2 3	1.राजनीति का बँटवारा 2.स्वामी विवेकानन्द 3. पर्यावरण और हम	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ जूम एप्प	आंतरिक मूल्यांकन	राजनीति पर व्यंगय नैतिक गुणों की ओर आकर्षित किया है। छात्रों को पर्यावरण में हानिकारक पदार्थों की जानकारी दी गयी।

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कक्षा: I Yr.(Deg.) फैकल्टी का नाम: Mrs.Rehana सेमेस्टर–2

Topic/Unit विषय/इकाई	No.of Classes कक्षाओं की संख्या	Subjectives विषय	Teaching Aids Used शिक्षण सामग्री	Assessments मूल्यांकन	Outcomes निष्कर्ष
Unit-III इकाई–3 कथा सिंधु	 6 7 3 1 1	डिप्टी क्लेवर्टर 1.गदल 2.हँसू या रोऊँ 3.वापसी 4.सेवा 5.सिलिया	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ जूम एप्प	आंतरिक मूल्यांकन	➢ छात्रों का पिता के प्रति कर्तव्यपरायणता तथा स्वाभिमानी साहसी स्त्री की कहानी, स्वार्थी प्रवृत्ति पर व्यंग्य, नारी चेतना विषयों प जागृत किया।
Unit-IV इकाई–4 व्याकरण	4 2	संधि विच्छेद विलोम शब्द पत्र–लेखन	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ जूम एप्प	आंतरिक मूल्यांकन	➢ छात्रों का संधि विच्छेद के विभिन्न रूपों तथा विलोम और पत्र लेखन के दो रूपों पर जानकारी प्राप्त किया गया है।

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DEPARTMENT OF HINDI

विषय: हिंदी

2024.2025.

कक्षा: **II Yr.(Deg.)**

फैकल्टी का नाम: **Mrs.Malaika Begum**

सेमेस्टर–3

Topic/Unit विषय/इकाई	No.of Classes कक्षाओं की संख्या	Subjectives विषय	Teaching Aids Used शिक्षण सामग्री	Assessments मूल्यांकन	Outcomes निष्कर्ष
Unit-I काव्य निधि	1.	1. कबीर के दोहे –कवि परिचय, दोहों के भावार्थ	पी.पी.टी	पर्ची परीक्षण	छात्रों को गुरु का महत्व प्रतिपादित कि था गुरु की महानता दर्शाया है।
	2.	2.तुलसी के दोहे –कवि परिचय, दोहों के भावार्थ	पाठ्यपुस्तक चित्र	आन्तरिक परीक्षा "	
	3.	3.नवयुवकों से	ऑनलाइन कक्षाएँ	"	छात्रों को सच्चाई के रास्ते पर चलना
	2	4. फूल और काँटा	जूम एप्प	"	संदेश तथा महत्व।
	2	5. भारत	"	"	
	2	6.जीवन का अधिकार	"	"	सदगुणों से चारों ओर प्रेरित किया है।
	4	7. मेरा नया पवपन	"	"	
Unit- II हिन्दी साहित्य का इतिहास	5	आदिकाल–परिस्थितियाँ एवं प्रवृत्तियाँ	पी.पी.टी	पर्ची परीक्षण	छात्रों को दो काल विभिन्न निबंध औ अनुवाद की जानकारी प्राप्त हुई।
	5	भक्तिकाल–परिस्थितियाँ एवं प्रवृत्तियाँ	पाठ्यपुस्तक	आन्तरिक मूल्यांकन	
	6	रचनाकारों का संक्षिप्त परिचय	चित्र		
	6	निबंध	ऑनलाइन कक्षाएँ		
	1	अनुवाद	जूम एप्प		

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DEPARTMENT OF HINDI

2024-2025

विषय: हिंदी

कक्षा: II Yr.(Deg.) फैकल्टी का नाम: Mrs.Mallaika Begum सेमेस्टर–4

Topic/Unit विषय/इकाई	No.of Classes कक्षाओं की संख्या	Subjectives विषय	Teaching Aids Used शिक्षण सामग्री	Assessments मूल्यांकन	Outcomes निष्कर्ष
Unit-I काव्य निधि	2 2 6 6 3 7 5 4	1.मीरा के पद 2.रहीम के दोहे 3.बिहारी के दोहे 4.भगवान बुद्ध के प्रति 5.वे मुस्काते फूल नहीं 6. कलम और तलवार 7.तू क्यों बैठ गया है पथ पर? 8. अनुभव परिपक्व	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ जूम एप्प “ “ “	पर्ची परीक्षण आन्तरिक परीक्षा “ “ “ “ “ “	छात्रों को भक्तकाल के कवियों की जानकारी प्राप्त।
Unit- II हिंदी साहित्य का इतिहास	2 3 4 5. 6.	9.सीतिकाल श्रृंगारकाल 10.आधुनिककाल 11.रचनाकारों का संक्षिप्त परचिय 12.निबंध 13. बोधगम्य गद्यांश	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ जूम एप्प	पर्ची परीक्षण आन्तरिक परीक्षा	छात्रों को रीति तथा आधुनिक काल का चयन विभिन्न रचनाकारों की जानकारी, निबंध तथा गद्यांशो पर जागृत किया।

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फैकल्टी का नाम: श्रीमती मोही फातेमा

सेमेस्टर–5

No.of Classes कक्षाओं की संख्या	Subjectives विषय	Teaching Aids Used शिक्षण सामग्री	Assessments मूल्यांकन	Outcomes निष्कर्ष
6 6 6 6 6	1. राजभाषा 2. राष्ट्रभाषा 3. संपर्क भाषा 4. प्रयोजनमूलक हिंदी 5. विश्व में हिंदी का महत्व	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ जूम एप्प	पर्ची परीक्षण आन्तरिक परीक्षा	छात्रों का राजभाषा तथा राष्ट्रभाषा तथा संपर्क भाषा का अंतर का महत्व।
6 6 6 6	1. कविता 2.कहानी 3.उपन्यास 4.नाटक 5.एकांकी 6.निबंध 7.आत्मकथा 8.संस्मरण 9.रेखा-चित्र 10.व्यग्य 11.अन्यविधाएँ	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ ज़ूम-एप्प	पर्ची परीक्षण आन्तरिक परीक्षा	छात्रों का राजभाषा तथा राष्ट्रभाषा तथा संपर्क भाषा का अंतर का महत्व।
1 1 1 2 2 2 2 2	1.जनसंचार का अर्थ, परिभाएँ एवं स्वरूप 2.जनसंचार का महत्व 3.जनसंचार की प्रमुख विशेषताएँ 4.जनसंचार के प्रकार 5.दृश्य,श्रव्य,मुद्रण * नव इलेक्ट्रॉनिक जनसंचार के माध्यम * जनसंचार के माध्यमों में लोककलाएँ	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ जूम एप्प	पर्ची परीक्षण आन्तरिक परीक्षा	छात्रों को जनसंचार का अर्थ, स्वरूप, महत्व, विशेषताएँ आदि से जागृत किया गया।

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2024-2025

विषय: हिंदी

कक्षा:

फैकल्टी का नाम: श्रीमती मोही फातिमा

सेमेस्टर–6

Topic/Unit विषय/इकाई	No.of Classes कक्षाओं की संख्या	Subjectives विषय	Teaching Aids Used शिक्षण सामग्री	Assessments मूल्यांकन	Outcomes निष्कर्ष
Unit-I अनुवाद	1	1.अनुवाद शब्द की व्युत्पति, अर्थ, परिभाषएँ एवं स्वरूप	पी.पी.टी पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ ज़ूम–एप्प	पर्ची परीक्षण आन्तरिक परीक्षा	छात्रों को अनुवाद के विविध रूप से एवं गुण की जानकारी प्राप्त की गयी।
	1	2.अनुवाद का महत्व			
	2	3.अनुवाद के प्रकार			
	2	4.अनुवादक के गुण			
Unit- II पत्रकारिता	3	1.पत्रकारिता का अर्थ परिभाषाएँ,स्वरूप तथा उद्देश्य	पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ ज़ूम–एप्प पी.पी.टी	आन्तरिक मूल्यांकन	छात्रों को पत्रकारिता के रूप अर्थ,इतिहास, प्रकार महत्वों तथा गुणों के विषयों से जागृत किया गया है।
	2	2.पत्रकारिता का इतिहास			
	2	3.पत्रकारिता का महत्व			
	2	4.पत्रकारिता का प्रकार			
	2	5.पत्रकार के गुण			
	2	6.भारत के प्रमुख हिन्दी समाचार पत्र।			
Unit- III हिन्दी साहित्य के विविध आयाम	2	1.हिंदी में स्त्रीवादी साहित्य	पाठ्यपुस्तक चित्र ऑनलाइन कक्षाएँ ज़ूम–एप्प पी.पी.टी	आन्तरिक मूल्यांक	छात्रों को इस विषय से स्त्रियों को स्त्रियों के हित में पढ़ने, आगे बढ़ने के लिए प्रेरित किया।
	2	2.हिंदी में दलित साहित्य			
	2	3.हिंदी में आदिवासी साहित्य			
	2	4. हिंदी में अल्पसंख्यक साहित्य			

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DEPARTMENT OF MATHEMATICS

LESSON PLAN FOR 2024-2025

Course Name: DIFFERENTIAL AND INTEGRAL CALCULUS

Name of the Faculty : Azra Sultana

Program: BSc. (MECs, MPC & MPCs) I YEAR

SEMESTER-I PAPER – I

Topic/UNIT/ Chapter	No. of classes (from – to)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-I 1.PARTIAL DIFFERENTIATION Introduction function of two variables Neighborhood of a point (a, b) Continuity at a point Limit of a function of two variables Partial Derivative-Homogeneous function	15-07-2024 to 31-07-2024 (13 days)	Students understand Partial differentiation, Functions of two variables	Problem solving method	MCQ's	Students grasp Partial differentiation basics, Functions of two variables

Unit- 2 THEOREM ON TOTAL DIFFERENTIALS Composite Functions Differentiation of composite function Implicit function Equality of $f_{xy}(a,b)$ and $f_{yx}(a,b)$ Taylor's Theorem for a function of two variables	1-08-2024 To 31-08-2024 (22 days)	Students understand and apply key concept focusing on total differentials, Composite Functions, Implicit function, Taylor's Theorem for a function of two variables	Lecture Method	Assignment	Students will be able to work with composite functions and their differentiation, Apply the Equality of mixed partial derivatives.
Unit- 3 3-MAXIMA AND MINIMA OF FUNCTIONS OF TWO VARIABLES CURVATURE Lagrange's Method of Undetermined Multipliers Introduction Curvature Radius of Curvature Length of Arc as a function Radius of Curvature –Cartesian Equation Newtonian Method ,Center of Curvature	03-09-2024 to 30-09-2024 (20 days)	Students understand maxima and minima of functions of two variables	Lecture method , PPT presentation	MCQ's	Students can find maxima and minima of functions of two variables

Unit-4 4-EVOLUTES Introduction Evolutes and Involutes Properties of Evolutes One parameter family of curve -Family of straight line Determination of Envelopes	1-10-2024 to 14-10-2024 (6 days)	Students understand & learn about the concept of evolutes and involutes	Lecture Method	Assignment	Students grasp about evolutes and involutes concepts
Unit-5 5:LENGTH OF PLANE CURVES, VOLUMES AND SURFACES OF REVOLUTION Length of Plane Curves Introduction -Expression for the Length of Curve $y = f(x)$ Expression for the Length of Arc $x = f(y), x = f(t)\ ;\ y = \varphi(t); r = f(\theta)$ Volumes and Surface of Revolution Volume obtained by revolving about either Axis Expression for the volume obtained for the surface revolution Pappus Theorem , Surface of Revolution	15-10-2024 to 5-11-2024 (17 days)	Students understand Expression for the Length of Curve $y = f(x)$ Students calculate the length of plane curves	PPT presentation	MCQ's	Students can compute arc Length of plane Curves given in different forms.

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DEPARTMENT OF MATHEMATICS

LESSON PLAN FOR 2024-2025

Course Name: DIFFERENTIAL EQUATIONS
Program: B.Sc. (MECs , MPC & MPCs) I YEAR

Name of the Faculty : Azra Sultana
SEMESTER-II PAPER – II

Topic/UNIT/ Chapter	No. of classes (from – to)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit -I Differential Equation of first order and first degree Exact differential equation Integrating factor Change in Variables Total Differential Equations Simultaneous Total Differential Equations Equations of the form $y = f(x)$	12-12-2024 To 31-12-24 (12 days)	Students understand the methods for Solving Differential Equation of first order and first degree Understanding their properties and solution methods.	Problem solving method	MCQ's	Students can identify and solve exact differential equations: And use integrating factors for non-exact one. Students understand total differential equations: And methods for solving them, including simultaneous equations.

Unit-2 Differential Equations of first Order but not of first Degree Equation Solvable for y Equation solvable for x Equation that do not contain x (or) y Clairaut's equation	2-01-2025 To 28-01-2025 (21 days)	Students understand Differential Equation of first order but not of first degree	PPT presentation	Internal Assessment Conducted	Students can identify Differential Equation of first order but not of first degree
Unit-3 Higher Order Linear Differential Equations Solution of Homogeneous Linear Differentials Equations with constant coefficients Solution of Non-Homogeneous Differential Equation p(d)y with constant coefficient by means of polynomials operators	2-02-2025 to 19-02-2025 (12 days)	Students understand the methods to find general solutions.	Classroom Teaching Lecture Method	Internal Assessment Conducted	Students can solve Homogeneous Linear Differentials Equations with constant coefficients
Unit-4 Method of undetermined coefficients Method of Variation of Parameters Linear Differential Equation with constant coefficients The Cauchy-Euler Equation	20-02-2025 To 28-02-2025 (21 days)	Students understand and focus on the Method of undetermined coefficients Solve the Cauchy-Euler Equation	Problem solving method	MCQ's	Students can apply the Method of undetermined coefficients to find Particular solution
Unit- 5 Partial Differential Equations Formation of solution Linear and Non linear equation of first order Charpits method Non Homogeneous Linear Partial Differential Equation & Separation of variables.	01-03-2025 to 20-03-2025 (16 days)	Students Understand formation and Solution of PDE's	Lecture method	Assignment	Students can form and solve PDE's

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DEPARTMENT OF MATHEMATICS

LESSON PLAN FOR 2024-2025

Course Name: : Real Analysis

Name of the Faculty : Azra Sultana

Program: BSc. (MECs, MPC & MPCs) II YEAR

SEMESTER-III PAPER – III

Topic/UNIT/ Chapter	No. of classes (from – to)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-1 SEQUENCES Limits of Sequences Proofs of Limits Limit Theorem for Sequences Monotone Sequence and Cauchy sequence Subsequences Lim Sup's and Lim Inf's Series -Alternation Series and Integral test	(03-06-2024 to 29-06-2024) (20 days)	Students understand Limits of Sequences Students Study Convergence properties	Problem solving method	MCQ's	Students grasp Limits of Sequences Students Apply convergence tests.
Unit- 2 CONTINUITY Continuous function Properties of Continuous function Uniform continuity Limits of function	(04-07-2024 to 31-07-2024) (24 days)	Students learn the definition of continuous functions and understand continuity concepts	PPT presentation	Internal Assessment Conducted	Students understand continuous functions, knowing their properties and implication Students grasp limit of functions

B.Sc. II Year Sem-3					
Unit- 3 DIFFERENTIATION Basics properties of the Derivative The Mean Value theorem L-Hospital Rule Taylor's theorem	(01-08-2024 to 31-08-2024) (20 day	Students understand basic of derivatives Students understand L-Hospital Rule	Classroom teaching	MCQ's Assignment	Students grasp derivative properties , understanding basics and applying Students effectively use L-Hospital Rule
Unit-4 INTEGRATION The Riemann Integral Properties of Riemann Integral Fundamental theorem of Calculus	(03-09-2024 to 30-09-2024) (18 days)	Students understand the Riemann Integral & learn the definition	Classroom teaching PPT presentation	Internal Assessment Conducted	Students can define and understand the Riemann Integral
Unit-5 SEQUENCES AND SERIES OF FUNCTIONS Power Series Uniform convergence More on Uniform Convergence Differentiation of Power Series Integration of Power Series	(01-10-2024 to 21-10-2024) (11 days)	Students learn about convergence , properties of power series	Problem solving method	MCQ's	Students grasp the concept of power series

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DEPARTMENT OF MATHEMATICS

LESSON PLAN FOR 2024-2025

Course Name: Algebra

Name of the Faculty : Azra Sultana

Program: BSc. (MECs, MPC & MPCs) II YEAR

SEMESTER-IV PAPER – IV

Topic/UNIT/ Chapter	No. of classes (from – to)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-1 . GROUPS Definitions and examples of groups Elementary properties of Groups Subgroups -Terminology and Notation Subgroup Examples of subgroups Cyclic groups Properties of cyclic groups Classification of cyclic groups	(27-11-2024 to 31-11-2024)(4days)	Students understand basic concept of groups , Covering definition examples and elementary properties	Problem solving method	MCQ's	Students grasp the definition and examples
Unit- 2 PERMUTATION GROUP Definition and notation Cyclic notation, Properties of permutation A check to digit scheme based on Ds*D5* Isomorphism's- Cayley's theorem Properties of Isomorphisms,Automorphism Cosets and Lagrange's theorem Properties of Cosets Lagranage'sTheorem and Consequences- An application of Cosets to permutation groups -The Rotation Group of cube and a soccer ball	(02-12-2024 to 28-12-2024) (19 days)	Students understand basics of permutation definition and notation Properties of permutations	Problem solving method	**I**nternal Assessment conducted	Students grasp permutation notation and basics.

Unit- 3 NORMAL SUBGROUPS AND FACTOR GROUP Normal subgroups , Factor Groups Application of factor group Group Homomorphism Definition and examples Properties of Homomorphism-The First Isomorphism theorem	(02-01-2025 to 31-01-2025) (21 days)	Students understand normal sub groups and learn definitions, properties and applications	PPT presentation	Internal Assessment conducted	Students grasp normal sub--group and factor group knowing their properties and application
Unit-4 Rings Introduction to Rings Definition examples of Rings Properties of Rings Subrings Integral Domain :definition and examples Fields -Characteristics of a Ring	(1-02-2025 to 28-02-2025) (days)	Introduce the concept of rings, covering basic definition and example of rings.		Assignment	Students grasp the definition and example of rings.
Unit-5 Ideals and Factor Rings Prime Ideal Maximal Ideal Ring Ring Homomorphism, Properties of Ring Homomorphism	(01-03-2025 to 15-03-2025) (days)	Students understand Ideal's Prime Ideal, Maximal Ideal and Ring	PPT presentation	MCQ's	Students learn about the Ideal's, Prime Ideal, Maximal Ideal and Ring Students are familiar with ring notation and terminology.

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DEPARTMENT OF MATHEMATICS
LESSON PLAN FOR 2024-2025

Course Name: Linear Algebra **Name of the Faculty : Azra Sultana**

Program: B.Sc. (MECS & MPC) III YEAR SEMESTER-V PAPER - V

Topic/UNIT/ Chapter	No. of classes (from – to)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-1 Vector Spaces Vector Spaces and Subspaces—Null Spaces Column Spaces and Linear Transformation.	(3/06/2024 to 29-06/2024) (20 days)	Students understand Vector Space, Linear Transformation and Sub Space.	Problem solving method	Internal Assessment conducted	Students apply concept in the context of Linear Transformation
Unit-2 Linearly Independent Sets Bases—Coordinate Systems—The Dimension of a Vector Space	(2/07/2024 to 27/07/2024) (18days)	Students learn about linear independent set of vectors in a vector space.	Classroom teaching	MCQ's	Students understand linear independent set
Unit-3 Rank — Change of Basis - Eigen Values and Eigen Vectors -- The Characteristics Equation.	(01/08/2024 to 30/08/2024 (20days)	Students understand Change of Basis . Learn about rank.	PPT presentation	Assignment	Students can find Eigen Values and Eigen Vectors. Understand the concept of rank.
Unit-4 Diagonalization – Eigen Vectors and Linear Transformations – Complex Eigen Values – Applications to Differential Equations.	(03/09/2024 to 28/09/2024) (18 days)	Students understand Diagonalization using Eigen Vectors.	Lecture Method	Internal Assessment conducted	Students can Diagonalization matrices using Eigen Vectors.
Unit-5 - Orthogonality and Least Squares: Inner Product - Length and Orthogonality, Orthogonal Projections – The Gram Schmidt Process.	(1/10/2024 to 19/10/2024) (9 days)	Students understand inner products and concepts, Orthogonality projections.	Problem solving method	MCQ's	Student grasp inner product properties Student can compute Orthogonality projections

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DEPARTMENT OF MATHEMATICS
LESSON PLAN FOR 2024-2025

Course Name: Numerical Analysis
Program: BSc. (MECs, MPC & MPCs) III YEAR

Name of the Faculty : Shaik Abdul Hafiz.
SEMESTER-VI PAPER – VI

Topic/UNIT/ Chapter	No. of classes (from – to)	Objectives	Teaching Aid Used	Assessment	Outcomes
1. Errors in Numerical Solutions: The Solution of Equations in One Variable: The Bisection Method - The Iteration Method - The Method of False Position-Newton's Method - Muller's Method - solution of Systems of Nonlinear Equations.	27/11/2024 31/11/2024) (4days)	Students master numerical method for solving equation	Problem solving method	MCQ's	Students can use methods like Newton's or Bisection for solving nonlinear equations.
2.Interpolation And Polynomial Approximation Finite Differences-Differences of Polynomials - Newton's formula for Interpolation - Gauss's central differenees formulae - Stirling's and Bessel's formula - Lagrange's Interpolation Polynomial - Divided Differences - Newton's General Interpolation formula - Inverse Interpolation	02/12/2024 To 30/12/2024 (20 days)	Students understand interpolation and approximation techniques	PPT presentation	Internal Assessment conducted	Students can use the techniques for data approximation
3.Numerical Differentiation and Integration Trapezoidal Rule-Simpson's 1/3rd-Rule and Simpson's 3/8th-Rule - Boole's and Weddle's Rule - Newton's Cotes Integration Formulae.	2/01/2025 to 31/01/2025) (20days)	Students understand numerical differentiation and integration.	Classroom Teaching	Assignment	Students understand curve fitting and can solve system of liner equations.
Least Square Curve Fitting: Fitting a Straight Line, Nonlinear Curve Fitting. Solution of simultaneous linier algebra equation, Linear Equation, Elimination method, Method of Factorization, Jordans Method, Iterative Method, Jacobi's .	1/02/2025 to 28/02/2025) (18days)	Student Learn curve fitting and solving linear equations	Leeture method	Internal Assessment conducted	Students can apply methods like trapezoidal or Simpon's rule for integration
5. Numerical Solutions of Ordinary Differential Equations: Taylor's Series Method - Picard's Method - Euler's Methods - Runge Kutta Methods.	1/03/2025 to 15/03/2025 (12 days)	Student Solve ordinary differential equations numerically.	Classroom teaching	Assignment	Students can apply methods like Euler's or Runge-kutta for solving ODE'S.

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DEPARTMENT OF COMMERCE

Teaching Lesson Plan Format

Subject: Advanced Accounting **Semester: III**

Class: B.Com (G & C) **Name of the Faculty: Qaiser Sultana**

Topic/Unit/Chapter	No. of Classes (From ------- to------)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit – I Fixed and Fluctuating Capital Admission Retirement and Death of a Partner	16	1. To acquire knowledge of partnership firms. 2. To understand Admission Retirement and Death of a partner with various adjustment entries.	Smart board is used along with the Black Board	Objective & Subjective Question bank is given with E-Content	1. After studying this unit one would be able to demonstrate understanding of concepts underlying the accounting for course topic. 2. Memorize the basic terms concepts, and their application in accounting.
Unit – II Dissolution of partnership – Insolvency of a partner Sale to a company	16	1. To understand to concept of dissolution and partnership firm. 2. To understand the difference between revaluation account and realization account.	Smart board is used along with the Black Board	Objective & Subjective Question bank is given with E-Content	1. Analyze partnership related transactions and properly account for the liquidation of a partnership. 2. Summarize concepts and procedures underlying the measurement and reporting dealing with sale to a company.

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Unit – III Issue of Shares debentures and underwriting issue of bonus shares	16	1. To acquire the knowledge about issue of share and debentures. 2. To know the concept of underwriting and bonus shares. 3. To acquire the knowledge retated to guidelines issue by SEBI	Smart board is used along with the Black Board	Objective & Subjective Question bank is given with E-Content	1. Analyze accounting problems and apply appropriate accounting procedure to course topics 2. Students will be able to demonstrate progressive learning of various concepts relating to course topics
Unit – IV Preparation of Balance Sheet and Statement of profit and loss A/c. profits prior to incorporation	16	1. To understand the general instructions for preparation of Balance Sheet and Statement of Profit and Loss. 2. To understand the concept of profit prior to incorporation.			1. Students will be able to demonstrate knowledge of preparation of financial statements in accordance with Generally Accepted Accounting Principles through Analysis. 2. Demonstrate the knowledge of various advanced accounting issues related to incorporation.
Unit – V Average Profit Method Super Profit Method Capitalized Method Net Assets, Yield and Fair Value Method	16	1. To understand the concept of goodwill, its features need and factor affecting the value of goodwill. 2. To understand the need for valuation and its methods.			1. Students will recognize commonly used financial statements their components and how information flows from business transactions into these statements. 2. Students will be able to demonstrate progressive learning of various methods of share & good will valuation.

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Teaching Lesson Plan

2024-2025

Subject: FINANCIAL INSTITUTIONS & MARKETS

Class: BCOM (GENERAL) Second Year

Semester: III

Name of the Faculty: BUSHRA FATIMA

Topic/Unit/Chapter	No. of Classes (From	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT -I: INDIAN FINANCIAL SYSTEM: Concept-Meaning-Components-Functions-Flow of Funds Matrix-Financial System and Economic Development-Recent Developments in Indian Financial System-Weaknesses of Indian Financial System.	15	* The objective of this unit is to study recent developments, such as digitalization and financial inclusion, have significantly transformed the system, challenges like NPAs, limited access to credit, and regulatory gaps continue to limit its full potential. Addressing these weaknesses will be critical for the continued growth of the Indian economy.	Classroom Teaching,	Oral Question & Answer	*Students will be able to have clear understanding of Indian Financial System.
UNIT -II: FINANCIAL INSTITUTIONS: RBI-Constitutions-Organizational Structure-Commercial Banking:Types-Functions-Lending by Commercial Banks-Recent Developments-Merchant Banking-Functions-Venture Capital-Objectives-Private Equity-Role in start-ups-Hire Purchase and Leasing-Non-Banking Finance Companies:Types-Functions.	16	* The objectives of studying financial institutions, their structures, and their roles are to provide a comprehensive understanding of how financial systems function, the types of financial entities involved, and the services they offer. This knowledge helps in grasping how different financial tools, like banking, venture capital, and leasing, support economic development, entrepreneurship, and financial inclusion.	Classroom Teaching & Lab	MCQ	*Understand different financial tools.
UNIT -III: MONEY MARKET: Concept & Meaning-Functions of Money Market-Dealers-Money Market Instruments-RBI-Functions in Indian Money Markets-Role of RBI in Indian Money Market-LAF(Liquidity Adjustment Facility), MSF(Marginal Standing Facility), Repo, and Reverse Repo-MPC(Monetary Policy Committee)-Structure and Functions of Monetary Policy.	17	*The course also attempts to enable students to understand the money market & its role in the economy by managing short-term liquidity, stabilizing interest rates, & providing a platform for government & financial institutions to manage their short-term borrowing needs. The RBI plays a central role in regulating the money market, using tools such as LAF, MSF, and monetary policy to maintain economic stability.	PPT Presentation	MCQ	*Learn about the money market & its role in the economy.

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UNIT - IV: DEBT MARKET: Concept-Meaning-Evolution of Debt Markets in India-Difference between Money Market & Debt Market in India-Instruments & Players in Debt Market: Government Securities-PSU bonds-Corporate Bonds-Securities Trading Corporation of India-Primary Dealers in Government Securities-Bonds:Characteristics-Features of Bonds-Types of Bonds-Bond Ratings.	22	* The objective is to learn about the debt market in India, an essential component of the financial system, facilitating the raising of funds, offering various investment opportunities, and aiding in the efficient allocation of resources.	Classroom teaching	Oral Question & Answer	*Understand the concept and process of Debt Market in India.
UNIT – V: EQUITY MARKET: Concept & Meaning of Equity-Development of Equity Culture in India-Primary Market: IPO & FPO-Methods of IPO(Initial Public Offer-Follow on Public Offer) IPO vs FPO-Role of Merchant Bankers in Fixing the Price-Red Herring Prospectus-Sweat Equity-ESOP(Employees Stock Ownership Plans)-Rights issue-Secondary Market:Meaning & Functions of Stock Exchanges-Evolution & Growth of Stock Exchanges-Stock Exchanges in India-Recent Developments in Indian Stock Exchanges-Stock Market Indices-SEBI: Objectives-Role & Functions.	20	*To study the system and process of equity market in India.	PPT Presentation	Oral Question & Answer	* Understand the concept and process of Equity Market in India.

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DEPARTMENT OF COMMERCE

SUBJECT: FINANCIAL INSTITUTIONS & MARKETS

TEACHING LESSON PLAN BY **SALMA YASMEEN**

Class: B.COM (GEN) 2ND YEAR 3RD SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Indian Financial System: Concepts, Meaning, Components, Functions, Developments.	25 1/6/24 to 1/7/24	To introduce students basic knowledge about Indian financial system	Smart board along with black board, PPT's presentations	Internal Assessment and assigning students some projects	Students are able to provide knowledge about the fundamental concepts and working of Indian FS.
Unit-II Financial Institutions: RBI Constitutions, structure, commercial banks: types, functions, recent developments.	16 3/7/24 to 24/7/24	To keep knowledge about Indian financial institutions	Smart board along with black board, PPT's presentations	Internal Assessment and assigning students some projects	Students understand about various financial institutions
Unit-III Money Market: concepts, Meaning, Functions, RBI role, LAF, MSF, MPC.	18 25/7/24 to 17/8/24	To know about Money market	Smart board along with black board, PPT's presentations	Internal Assessment and assigning students some projects	Students are able to provide knowledge about money market
Unit-IV Debt Market: concepts, meaning, Evolution, Instruments, Characteristics.	10 19/8/24 to 31/8/24	To keep knowledge about debt market Govt Securities, Bonds	Smart board along with black board, PPT's presentations	Internal Assessment and assigning students some projects	Students are able to do to about Indian market and debt market
Unit-V Equity Market: Concepts, Meaning, types, IPO, FPO, Role of merchant, ESOP.	22 1/9/24 to 1/10/24	To enable the students about Equity market	Smart board along with black board, PPT's presentations	Internal Assessment and assigning students some projects	Students are aware about Various concepts related to equity market

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DEPARTMENT OF COMMERCE

Teaching Lesson Plan

2024-25

Subject: Relational Database Management System **Semester: III**

Class: B.Com (Computer Application) II year **Name of the Faculty: Dr. Yasmeen Banu**

Topic/Unit/Chapter	No. of Classes (From June 2024 to Oct 2024	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-I: BASIC CONCEPTS: Database Management System - File based system - Advantages of DBMS over file based system - Database Approach - Logical DBMS Architecture - Three level architecture of DBMS or logical DBMS architecture - Need for three level architecture - Physical DBMS Architecture - Database Administrator (DBA) Functions & Role - Data files indices and Data Dictionary-Types of Database. Relational and ER Models: Data Models - Relational Model – Domains - Tuple and Relation - Super keys - Candidate keys - Primary keys and foreign key for the Relations - Relational Constraints - Domain Constraint - Key Constraint - Integrity Constraint - Update Operations and Dealing with Constraint Violations - Relational Operations - Entity Relationship (ER) Model – Entities – Attributes – Relationships - More about Entities and Relationships - Defining Relationship for College Database - E-R Diagram - Conversion of E-R Diagram to Relational Database.	1/6/2024 to 29/6/2024 (24 days)	* Students learn about the Database Management System, Three level architecture of DBMS or logical DBMS architecture	Classroom Teaching,	Oral Question & Answer	* Students will be able to describe DBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models.

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UNIT-II: DATABASE INTEGRITY AND NORMALISATION: Relational Database Integrity – The Keys - Referential Integrity - Entity Integrity - Redundancy and Associated Problems – Single Valued Dependencies – Normalization - Rules of Data Normalization - The First Normal Form -The Second Normal Form - The Third Normal Form - Boyce Codd Normal Form - Attribute Preservation - Lossless- join Decomposition - Dependency Preservation. File Organization : Physical Database Design Issues - Storage of Database on Hard Disks - File Organization and Its Types - Heap files (Unordered files) - Sequential File Organization - Indexed (Indexed Sequential) File Organization - Hashed File Organization Types of Indexes - Index and Tree Structure - Multi-key File Organization - Need for Multiple Access Paths - Multi-list File Organization - Inverted File Organization.	1/7/24 to 16/7/ 24 (14 Days)	*To Learn about the Database Integrity and Normalization	Classroom Teaching & Lab	Lab Work	* Students will be able to explain the Rules of Data Normalization and Boyce Codd Normal Form
UNIT-III: STRUCTURES QUERY LANGUAGE (SQL): Meaning–SQL commands – Data Definition Language - Data Manipulation Language - Data Control Language - Transaction Control Language - Queries using Order by – Where - Group by - Nested Queries. Joins – Views – Sequences - Indexes and Synonyms - Table Handling.	18/7/24 to 10/8/24 (18 Days)	*To provide and understand about the structure Query Language	PPT Presentation	MCQ	*Learn and apply Structured query language (SQL) for database definition and database manipulation. d) Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.
UNIT-IV: TRANSACTIONS AND CONCURRENCY MANAGEMENT: Transactions-Concurrent Transactions - Locking Protocol – Serializable Schedules - Locks Two Phase Locking (2PL) - Deadlock and its Prevention - Optimistic Concurrency Control. Database Recovery and Security: Database Recovery meaning - Kinds of failures - Failure controlling methods - Database errors - Backup & Recovery Techniques - Security & Integrity - Database Security -Authorization.	12/8/24 to 14/9/24 (21 Days)	* To lean and study about the concepts of database security and authorization.	Classroom teaching	Write a short notes on Database security	* Students able to explain the failure controlling methods, database errors, security and integrity.

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UNIT-V:DISTRIBUTED AND CLIENT SERVER DATABASES: Need for Distributed -Database Systems - Structure of Distributed Database - Advantages and Disadvantages of DDBMS - Advantages of Data Distribution - Disadvantages of Data Distribution - Data Replication - Data Fragmentation. Client Server Databases: Emergence of Client Server Architecture - Need for Client Server Computing - Structure of Client Server Systems & its advantages. **ADVANCED TOPICS:** Overview: Parallel Database - Multimedia Database - Mobile Database - Web Database - Multidimensional Database. Data Warehouse - OLTP Vs OLAP - NoSQL Database. **LAB:** SQL Queries Based on Various Commands.	18/9/24 to 19/10/24 (18 Days)	* To provide and understand about the Client Server Architecture and Advantages & Disadvantages of DDBMS	PPT Presentation On OLTP VS OLAP	Write a brief notes on NoSQL Database	* Understand the multidimensional Database and structure of Distributed Database. * Explain the concepts of Client Server Database.

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DEPARTMENT OF COMMERCE

Teaching Lesson Plan

2024-25

Subject: WEB TECHNOLOGIES **Semester: IV**

Class: B.Com (Comp. Appl.) Second Year **Name of the Faculty: Dr. Yasmeen Banu**

Topic/Unit/Chapter	No. of Classes (From – Nov 2024 to March 25)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT -I : Introduction to Web Technology Introduction to web technology – HTML – types of HTML tags- basic Structure of HTML – Web design principles – HTML attributes – styles – Hypertext - Formatting text – Forms & formulating instructions & formulation elements – Commenting code – Back grounds – Images Hyperlinks – Lists – Tables – Frames	19/11/24 to 14/12/24 (16 Days)	*Learn the basics of HTML	Classroom Teaching.	Oral Question & Answer	*students able to explain about the technologies that makes the web pages.
UNIT–II : An overview of Dynamic Web Pages An over view of dynamic web pages – technologies: Introduction to Dynamic HTML programing - Cascading style sheets (CSS) – types and advantages of CSS – CSS basic syntax and structure - Changing Text and Attributes - Dynamically changing style - Text Graphics and placements - Creating multimedia effects with filters and Transactions.	17/12/24 to 4/1/25 (13 Days)	* Learn the Language of the CSS- CSS grid layout	PPT Presentation	MCQ	*Make the web pages more dynamic and interactive using CSS
UNIT–III : JAVA Script Java Script: Introduction - Client side Java script - Server side Java script - Core features - Data types and variables – Operators - Expressions and statements – Functions – Objects – Array - Date and math related objects - Document object model – Event handling	6/1/25 to 25/1/25 (15 Days)	* Develop basic Programming skills using JAVA Script.	PPT Presentation	Oral Question & Answers	* students able to explain about the client side scripting like HTML, JAVA scripting.
UNIT–IV: EVENTS & EVENTS HANDLERS Events And Event Handlers: General information about Events – Event – OnAbort – OnClick - Ondbl click - Ondrag drop – Onerror - Onfocus - Onkey Press – Onkey Up – Onload - Onmouse Down – Onmouse Move - Onmouse Out – Onmouse Over - Onmove - Onrest – Onresize - Onselect - Onsubmit - Onunload.	27/1/25 to 8/2/25 (12 Days)	*To understand event handler used in web pages	Teaching on Smart Board	PPT Presentation	* students can create a dynamic web pages
UNIT–V : Extensible Markup Language Extensible Markup Language (XML): Introduction - Creating XML Documents - XML style Sheet – Hyperlinks in XML Document Object Model - XML Query Language. LAB WORK: Creating A Website With Dynamic Functionality Using Client-Side And Server Side Scripting.	17/2/25 to 8/3/25 (16 Days)	* To understand the XML basics	Chart Presentation	Write a Short note on XML Style Sheet	* students learn about XML basics and program the server side.

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DEPARTMENT OF COMMERCE

TEACHING LESSON PLAN

Subject: Income Tax

Name of the teacher: Ishaq Ahmed

B.Com II year IV sem

Topic/Unit/ Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit –I Introduction	Nov. 22 to Dec.4	To introduce the students basic knowledge of taxes direct-indirect taxes types of incomes and all other basic topic of unit-1`	Smart Board along with Black Board	Objective & Subjective Question Bank is given with E-Content	Students understand the all basic concepts of taxes and including problems
Unit-II Income from salary	Dec. 5 to Dec. 27	To make people understand the definition of salary, computation of salary income , Deduction u/s 17,16 Including problems `	Smart Board along with Black Board	Objective & Subjective Question Bank is given with E-Content	After completion of this unit peoples had lear how to calculate Income from salary, Deduction u/s 16,17 .
Unit-III Income from house property	Dec. 28 to Jan 25	To familiarize the people with definition meaning of house property problems on computation of income from house property.	Smart Board along with Black Board	Objective & Subjective Question Bank is given with E-Content	After successfully completion of IV th unit student were able to understand how to exempt house property income and do deduction u/s 24.
Unit –IV Profits and gains of	Jan. 27 to Feb 21	To make people to gain knowledge about profits and gains of business or	Smart Board along with	Objective & Subjective Question Bank	At the end of this unit students had understood how profit

business or profession		profession	Black Board	is given with E-Content	and gains of business or profession is calculated
Unit –V Capital Gains and Income from other sources	Feb 22 to Mar 24	To introduce the people about capital gains, Definition, meaning, problems on computation of capital gains. To initiate the students with the concepts of general incomes u/s 56(1) specific incomes u/s 56(2) and problems on computation of income	Smart Board along with Black Board	Objective & Subjective Question Bank is given with E-Content	At the end students had learn about tax returns, rectification of mistakes and notice on demand

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Teaching Lesson Plan

2024-2025

Subject: CORPORATE ACCOUNTING
Class: BCOM (GENERAL) Second Year

DEPARTMENT OF COMMERCE

Semester: IV
Name of the Faculty: MOHAMMED AMJAD

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT -I: COMPANY LIQUIDATION	11/12/24-24/12/24	* The objective of this unit is to study about company liquidation	Classroom Teaching,	Oral Question & Answer	*Students will be able to have clear understanding about company liquidation
UNIT -II: AMALGAMATION (AS-IV)	31/12/24-09/01/25	* The objectives of studying regarding amalgamation is done	Classroom Teaching & Lab	MCQ	*Understand different types of amalgamation
UNIT -III: INTERNATIONAL RECONSTRUCTION & ACQUISITION OF BUSINESS	10/01/25-31/01/25	*The course also attempts to enable students to understand the the concepts of international finance & acquisition of business	PPT Presentation	MCQ	*Learn about the concepts of international finance & acquisition of business
UNIT - IV: ACCOUNTS OF BANKING COMPANIES	03/02/25-11/02/25	* The objective is to learn about the accounts of banking companies	Classroom teaching	Oral Question & Answer	*Understand the concept and process of accounts of banking companies
UNIT – V: ACCOUNTS OF INSURANCE COMPANIES & INSURANCE CLAIMS	12/02/25-04/03/25	*To study the system and process of accounts of insurance companies & insurance claims	PPT Presentation	Oral Question & Answer	* Understand the concept and process of accounts of insurance companies & insurance claims

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Teaching Lesson Plan
2024-2025

Subject: CORPORATE ACCOUNTING
Class: BCOM (GENERAL) Second Year

Semester: IV
Name of the Faculty: BUSHRA FATIMA

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT -I: COMPANY LIQUIDATION	15	* The objective of this unit is to study about company liquidation	Classroom Teaching,	Oral Question & Answer	*Students will be able to have clear understanding about company liquidation
UNIT -II: AMALGAMATION (AS-IV)	17	* The objectives of studying regarding amalgamation is done	Classroom Teaching & Lab	MCQ	*Understand different types of amalgamation
UNIT -III: INTERNATIONAL RECONSTRUCTION & ACQUISITION OF BUSINESS	16	*The course also attempts to enable students to understand the the concepts of international finance & acquisition of business	PPT Presentation	MCQ	*Learn about the concepts of international finance & acquisition of business
UNIT - IV: ACCOUNTS OF BANKING COMPANIES	20	* The objective is to learn about the accounts of banking companies	Classroom teaching	Oral Question & Answer	*Understand the concept and process of accounts of banking companies
UNIT – V: ACCOUNTS OF INSURANCE COMPANIES & INSURANCE CLAIMS	19	*To study the system and process of accounts of insurance companies & insurance claims	PPT Presentation	Oral Question & Answer	* Understand the concept and process of accounts of insurance companies & insurance claims

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DEPARTMENT OF COMMERCE

Lesson Plan

2024-2025

Subject: THEORY & PRACTICE OF GST

Class: B.COM GENERAL THIRD YEAR

Semester: V

Name of the Faculty: BUSHRA FATIMA

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT - I:INTRODUCTION TO GST	20	*To provide the students to understand the knowledge of GST	Classroom Teaching	Oral Question & Answer	*The students to understand the knowledge of GST
UNIT - II : GETTING STARTED WITH GST	15	*To Provide the Knowledge about getting started with GST	Smart Class	Solve Simple Problems of Accounting	*To Provide the Knowledge about getting started with GST
UNIT - III : RECORDING ADVANCED ENTRIES, GST ADJUSTMENT & RETURN FILING	17	*To provide the students to understand the preparation of advanced entries, GST adjustment & return filing	Smart Class	Solve simple Problems	*To provide the students to understand the preparation of advanced entries, GST adjustment & return filing
UNIT – IV: GETTING STARTED WITH GST (SERVICES)	16	*To provide the students to understand the objectives of GST	Smart class & PPT Presentation	Solve Simple Problems	*To provide the students to understand the objectives of GST
UNIT – V : RECORDING ADVANCED ENTRIES & MIGRATION TO ERP	19	*To provide the students to understand recording of advanced entries & migration to ERP	Smart class & PPT Presentation	Solve Simple Problems	*To provide the students to understand recording of advanced entries & migration to ERP

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Lesson Plan

DEPALTMENT OF COMMELCE

2024-2025

Subject: Business Economics

Class: Class: BCOM (GENERAL) Third Year

Semester: V

Name of the Faculty: BUSHRA FATIMA

Topic/Unit/Chapter	No. of Classes (From –	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT -I :BUSINESS ECONOMICS NATURE AND SCOPE :Introduction to Business Economics- - Meaning - Definitions - Objectives- Characteristics- Nature and scope - Concept of Opportunities Cost - Incremental Cost. Time perspective- Discounting and Equi-Marginal Principle.	15	*Thepurposeofthiscourseistoapplymicroeconomicconceptsandtoolsforanalyzing businessproblems.	Classroom Teaching.	Oral Question & Answer	*UpontheCompletion ofthecourse, students will beabletohaveclearunderstandingof theconcept ofthe variousconstituentsofenvironment andtheirimpact onbusinesses.
UNIT–II : DEMAND CONCEPTS & ELASTICITY OF DEMAND : Concept of Demand Determinates of demand- law of demand- exception to the law of demand- elasticity of demand- types of demand elasticity---measurement of elasticity- uses of demand elasticity. Concept of Supply- Determinants of Supply- Law of Supply- Elasticity of Supply.	20	* Tomakestudentsawareofcostconcepts.	PPT Presentation	MCQ	*UnderstandtheconceptElasticityofderived.
UNIT–III :PRODUCTION AND COST CONCEPTS :Theory of production- production function- input output combination- short run production laws- law of diminishing marginal returns to scale -ISO-quant curves- ISO-cost curves	16	* Tomakeaccuratedecisionpertainingtoindividualfirms.	PPT Presentation	Oral Question & Answers	* TodrawISOquantandISOcostcurves.
UNIT–IV: BUDGET LINE :Cost concepts- cost classification- short run cost curves and long run cost curves- Experience Curve .Economies and diseconomies to the scale- economies of scope.	14	*Tounderstandtoolsandtechniquesofmicroeconomics.	Teaching on Smart Board	PPT Presentation	* UnderstandtheconceptofBudgetingineconomicsandTGholliesofscale
UNIT–V :MARKET STRUCTURES AND PRICING : Concept of market- structures- perfect competition market and price determination - Monopoly and abnormal profits – Monopolistic competition market and price determination - Price discrimination. Oligopoly- Features of Oligopoly- Syndicating in Oligopoly- kinked demand curve- Price leadership and market positioning.	22	* Tounderstandtoolsandtechniquesofmicroeconomics.	Chart Presentation	Prepare chart on Market Structure	* UnderstandPerfectandImperfectcompetitionsinthemarket.

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DEPARTMENT OF COMMERCE

Lesson Plan
2024-2025

Subject: Cost Accounting
Class: B.COM GENERAL THIRD YEAR
Semester: V
Name of the Faculty: BUSHRA FATIMA

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT - I:INTRODUCTION TO COST ACCOUNTING:	15	*To provide the students to understand the knowledge of Cost Accounting	Classroom Teaching	Oral Question & Answer	*Students can Demonstrate Cost Accounting & their uses
UNIT - II : MATERIAL	14	*To Provide the Knowledge about the material costs	Smart Class	Solve Simple Problems of Accounting	*Students can demonstrate the Journal entries and the accounting rules as well as preparation of Ledger Accounts and Trial Balance.
UNIT - III : LABOUR & OVERHEADS	12	*To provide the students to understand the preparation of Accounts and also understanding the concepts of labour & overheads	Smart Class	Solve simple Problems	*Demonstrate how to solve the problems of labour & overheads
UNIT – IV: UNIT & JOB COSTING	14	*To provide the students to understand the objectives of unit costing *To provide the students to understand the concept of job costing	Smart class & PPT Presentation	Solve Simple Problems	*Demonstrate about the unit costing techniques *Demonstrate the job costing techniques
UNIT – V : CONTRACT & PROCESS COSTING	19	*To provide the students to understand the objectives of contract costing *To provide the students to understand the concept of process costing	Smart class & PPT Presentation	Solve Simple Problems	*Demonstrate about the contract costing techniques *Demonstrate the process costing techniques

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DEPARTMENT OF COMMERCE

SUBJECT: COMPUTERIZED ACCOUNTING

TEACHING LESSON PLAN BY ASHRAF

Class: B.COM (Comp.) 3RD YEAR 5TH SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Maintaining Chart of Accounts in ERP: introduction, company creation, features and configuration of F11, chart of Accounts, groups of Accounts, groups of ledgers.	25 1/6/24 to 1/7/24	To introduce students basic knowledge of ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about the basics of ERP
Unit-II Maintaining Stock Keeping Units (SKU):Inventory master, creation of stock group and stock Item.	16 3/7/24 to 24/7/24	To keep knowledge about inventory masters in ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students understand about maintaining stock keeping units
Unit-III Recording day-to-day Transactions in ERP: Voucher recording transaction receipt payment and contra vouchers.	18 25/7/24 to 17/8/24	To know about recording day-to-day transactions in ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about recording day-to-day transactions in ERP
Unit-IV Accounts Receivable and Payable Management: Bill-wise activation of payable and receivable Accounts.	10 19/8/24 to 31/8/24	To keep knowledge about accounts receivable and payable management in ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide the knowledge about Accounts Receivable and Payable Management
Unit-V MIS Reports: Introduction to MIS, trail balance, Balance sheet, Profit and Loss Account, Day book, receipts and payments etc.	22 1/9/24 to 1/10/24	To enable the students about MIS reports	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are aware about MIS reports

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DEPARTMENT OF COMMERCE

SUBJECT: COMPUTERIZED ACCOUNTING

TEACHING LESSON PLAN BY SYEDA NAFEESA

Class: B.COM (Comp.) 3RD YEAR 5TH SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Maintaining Chart of Accounts in ERP: introduction, company creation, features and configuration of F11, chart of Accounts, groups of Accounts, groups of ledgers.	25 1/6/24 to 1/7/24	To introduce students basic knowledge of ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about the basics of ERP
Unit-II Maintaining Stock Keeping Units (SKU):Inventory master, creation of stock group and stock Item.	16 3/7/24 to 24/7/24	To keep knowledge about inventory masters in ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students understand about maintaining stock keeping units
Unit-III Recording day-to-day Transactions in ERP: Voucher recording transaction receipt payment and contra vouchers.	18 25/7/24 to 17/8/24	To know about recording day-to-day transactions in ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about recording day-to-day transactions in ERP
Unit-IV Accounts Receivable and Payable Management: Bill-wise activation of payable and receivable Accounts.	10 19/8/24 to 31/8/24	To keep knowledge about accounts receivable and payable management in ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide the knowledge about Accounts Receivable and Payable Management
Unit-V MIS Reports: Introduction to MIS, trail balance, Balance Sheet, Profit and Loss Account, Day book, receipts and payments etc.	22 1/9/24 to 1/10/24	To enable the students about MIS reports ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are aware about MIS reports

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DEPARTMENT OF COMMERCE

Teaching Lesson Plan Format

Subject: Cost Accounting **Semester: V**

Class: B.Com (G & C) **Name of the Faculty: Qaiser Sultana**

Topic/Unit/Chapter	No. of Classes (From ------- to-------)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit – I Introduction of Cost Accounting Cost Concepts – Cost Clarification – Cost Accounting Stand	16	1. To Know the objective scope, functions 2. To enhance communication among Departmental Manager	Smart board is used along with the Black Board	Objective & Subjective Question bank is given with E-Content	1. The Students are acquainted with the objectives, scope functions and advantages and limitations of cost accounting. 2. Students will be able to apply knowledge of accounting concepts & conventions.
Unit – II Material Cost and Employee Cost – Direct Expenses – Inventory Control Techniques Material purchases and storage	16	1. To ascertain the cost of material. 2. To enable students evaluate the material procurement procedure inventory control techniques and inventory accounting.	Smart board is used along with the Black Board	Objective & Subjective Question bank is given with E-Content	1. Through knowledge and understanding students will be able to collect knowledge about inventory control techniques. 2. To develop the knowledge about direct and indirect material cost.

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Unit – III Direct and Indirect Labour Cost, Methods of wage payment Apportionment and absorption of overhead	16	1. To enable students to evaluate the direct and indirect labour cost methods of payment and methods of allocation 2. Helps in pro per decision making	Smart board is used along with the Black Board	Objective & Subjective Question bank is given with E-Content	1. The Students will acquire knowledge about labour and overhead. 2. Students will develop restructure and apply cost accounting approaches to solve practical problems.
Unit – IV Unit and Job Costing sheet with tender Quotations preparation of job cost sheet	16	1. To enable students to evaluate unit and job costing 2.			1. Keep them aware of unit and job costing. 2. Students will be able to understand the difference between previous cost and estimated cost for its application in real life.
Unit – V Procedure and guidelines to assess profit on contracts Preparation of process accounts with normal and abnormal losses.	16	1. To enable student to explain contract and process costing. 2.Ascertainment of profit on each contract and process.			1. Keep the student aware of contract and process costing. 2. students will be able to understand the basic concepts of production process and will help the students to apply the same on the job.

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SUBJECT: MANAGEMENT INFORMATION SYSTEM

DEPARTMENT OF COMMERCE

TEACHING LESSON PLAN BY **SALMA YASMEEN**

Class: B.COM (Comp.) 3RD YEAR 5TH SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Introduction to MIS: Organization Structure, Evaluation, Decision making Process, Structure of MIS	25 1/6/24 to 1/7/24	To introduce students basic knowledge of MIS	Practice on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about the basics of MIS
Unit-II Information System For Decision Making: Basic information System, Assisting IS, Concepts of MIS & Efficiency Criteria.	16 3/7/24 to 24/7/24	To keep knowledge Concepts & efficiency, Decision making.	Practice on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students understand about decision making and project management concept
Unit-III Development of MIS: Methodology & Tools, Basic ERP, Evaluation, E-Enterprise system.	18 25/7/24 to 17/8/24	To know about	Practice on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide methods and tools and basic ERP
Unit-IV Advanced MIS: Concepts, Needs, Problems, MIS, DSS, System development.	10 19/8/24 to 31/8/24	To keep knowledge about	Practice on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide the knowledge to needs and tackle the problems in achieving MIS
Unit-V MIS Reports and analysis: Advance level of Excel, Logical functions, text, time, and math functions,	22 1/9/24 to 1/10/24	To enable the students about MIS reports ERP	Practice on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are aware about MIS reports and analysis.

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DEPARTMENT OF COMMERCE

SUBJECT: COMPUTERIZED ACCOUNTING

TEACHING LESSON PLAN BY : KAUSER JABEEN

Class: B.COM (Comp.) 3RD YEAR 5TH SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Maintaining Chart of Accounts in ERP: introduction, company creation, features and configuration of F11, chart of Accounts, groups of Accounts, groups of ledgers.	34 6/6/24 to 10/7/24	To introduce students basic knowledge of ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about the basics of ERP
Unit-II Maintaining Stock Keeping Units (SKU):Inventory master, creation of stock group and stock Item.	26 11/7/24 to 5/8/24	To keep knowledge about inventory masters in ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students understand about maintaining stock keeping units
Unit-III Recording day-to-day Transactions in ERP: Voucher recording transaction receipt payment and contra vouchers.	26 6/8/24 to 11/9/24	To know about recording day-to-day transactions in ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about recording day-to-day transactions in ERP
Unit-IV Accounts Receivable and Payable Management: Bill-wise activation of payable and receivable Accounts.	19 12/9/24 to 30/8/24	To keep knowledge about accounts receivable and payable management in ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide the knowledge about Accounts Receivable and Payable Management
Unit-V MIS Reports: Introduction to MIS, trail balance, Balance Sheet, Profit and Loss Account, Day book, receipts and payments etc.	26 1/10/24 to 26/10/24	To enable the students about MIS reports ERP	Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are aware about MIS reports

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DEPARTMENT OF COMMERCE

SUBJECT: THEORY & PRACTICE OF GST

TEACHING LESSON PLAN BY **SALMA YASMEEN**

Class: B.COM (Comp.) 3RD YEAR 6TH SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Introduction To GST: Tax subsumed , council procedure, Registration, Cancellation.	14 19/11/24 to 04/12/24	To equip the students with introduction to GST	GST problems in Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about the goods service tax
Unit-II Getting Started with GST: Enabling GST, Intrastate ,Interstate, Supply of goods and services.	19 5/12/24 to 27/12/24	To Impart knowledge about enabling GST and Interstate supply, sales of goods.	GST problems in Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students gets the knowledge about Getting started with GST
Unit-III Recording Advance Entries: Accounting of GST transactions, Reports in ERP, modes of payments.	25 28/12/24 to 24/1/25	To know about GST advanced and return filing	GST problems in Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students provide knowledge about advanced entries, GST adjustment and return file
Unit-IV Getting started with GST: Determination of supply, services, Interstate & Intrastate supply.	25 27/1/25 to 21/2/25	To enhance students determination of supply of services and defining tax rates	GST problems in Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide the knowledge about determination of supply of services
Unit-V Recording advance entries: Supply of services, Time & Place of supply, Generation GSTR, Report in ERP.	20 22/2/25 to 24/3/25	To develop practical knowledge about recording advance entries and migration to ERP	GST problems in Tally ERP9 on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are aware about recording advanced entries and migration to ERP.

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DEPARTMENT OF COMMERCE

SUBJECT: GST:GOODS AND SERVICE TAX

TEACHING LESSON PLAN BY : SYEDA NAFEESA

Class: B.COM (Comp.) 3 YEAR SEMESTER : 6

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I **INTRODUCTION TO GST:** **Introduction – GST –** Process of Registration - Cancellation - Supply of Goods and Services - Transition to GST - Registered Business —-Tax Invoice -Bill of Supply - - GST Returns - Payment of Tax.	19/11/24 To 28/12/24 39	To introduce students about GST on goods and services	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge GST for goods and services
Unit-II **GETTING STARTED WITH GST:** - Enabling GST and Defining Tax Details- Transferring Input Tax credit to GST - Intrastate Supply of Goods- Return of Goods - Inclusive of Tax -Defining Tax Rates at Master and Transaction Levels —Reports	30/12/24 To 14/1/25 13	To keep the students aware about application of Gst.	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students understand about application methods of Gst in business
Unit-III **RECORDING ADVANCED ENTRIES, GST ADJUSTMENT AND RETURN FILING:** Accounting of GST Transactions -Purchases from Composition Dealer - Exports -Imports - Exempted Goods -SEZ Sales -	15/1/25 To 1/2/25 15	To know about advanced methods of recording Gst -	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide awareness about advance entries adjustment and return filing.
Unit-IV **GETTING STARTED WITH GST (SERVICES):** Determining the Place of Supply of Services - Interstate Inward Supply	3/2/25 To 10/2/25 9	To keep knowledge About how the Gst is applicable at service sector	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to Understand the application of gst in service sector.
Unit-V **RECORDING ADVANCED ENTRIES AND MIGRATION TO ERP:** Generating GSTR- Report in ERP - Input Tax Credit Set Off - Migration to ERP - Activate Goods and Services Tax (GST) in ERP -	11/2/25 To 8/3/25 32	To enable the students methods of maintaining Gst for migratrates.	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students got to know how the GST is applicable in the case of migration and GSRTC.

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SUBJECT: MULTIMEDIA

DEPARTMENT OF COMMERCE

TEACHING LESSON PLAN BY **SALMA YASMEEN**

Class: B.COM (Gen & Comp.) 3RD YEAR 6 TH SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Media and Data Streams: Types of Media, Print, Movies, Data streams characteristics.	14 19/11/24 to 04/12/24	To introduce students basic knowledge of Multimedia	Projects on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about the basics implementation of digital interface
Unit-II Digital Image & Animation: Analysis, Recognition, Transmission.	19 5/12/24 to 27/12/24	To keep knowledge about processed and presented by computer	Projects on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students understand about video presentation and digitalization transmission
Unit-III Data Compression Standards & Storage: JPEG, H-261, MPEG DVI, Optical storage devices.	25 28/12/24 to 24/1/25	To know about data standards and application areas	Projects on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about data storage concepts and devices
Unit-IV Multimedia Communication System, Database & Synchronization: QOS, Resources management.	25 27/1/25 to 21/2/25	To keep knowledge about Resources and evaluation	Projects on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Learning of Multimedia communications and synchronization of data
Unit-V Multimedia Application: Media preperation , Composition, Consumption, entertainment, Graphics.	20 22/2/25 to 24/3/25	To enable the students about develop effective multimedia application	Projects on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are aware about Multimedia application and integrating with other systems

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DEPARTMENT OF COMMERCE

SUBJECT: FUNDAMENTALS OF INFORMATION TECHNOLOGY

TEACHING LESSON PLAN BY **SALMA YASMEEN**

Class: B.COM (Comp.) I[ST] YEAR I[ST] SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Introduction, Definition, Characteristics of Computer, Evolution, Generations, Classifications, Applications, Capabilities & Limitations of computer.	13 15/7/2024 to 3/8/24	To introduce students basic knowledge of Computer	Smart board along with black board	Internal Assessment and assigning students some practice in computer lab	Students are able to provide knowledge about the basics of Computer
Unit-II Computer Arithmetic &Storage Fundamentals. Binary, Number system, Hexadecimal, Storage, Primary & Secondary.	13 7/8/24 to 31/8/24	To keep knowledge about RAM, ROM, PROM, EPROM, Magnetics tapes, Floppy disks, Zip	Practice on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students understand about Primary and Secondary storage
Unit-III Software: Software needs, Types, Programming Language, Application, Word Processing, DBMS s/w.	10 3/9/24 to 14/9/24	To know about software and its programming languages, Applications & its types	Practice on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to understand about software and programming languages
Unit-IV Operating System: Functions, Measuring system performance, Multiprogramming.	15 17/9/24 To 5/10/24	To keep knowledge about Functions and Time sharing, DOS, Windows	Practice on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about Multiprogramming.
Unit-V Data Communication: Basic Network Devices, Process, Data Transmission Speed, Types of Network.	11 days 15/10/24 To 26/10/24	To enable the students about Types of Network, LAN, Computer Protocols, Concepts network.	Practice on system Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are aware about network, and data communication

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DEPARTMENT OF COMMERCE

Teaching Lesson Plan Format

Subject: Foreign Trade

Semester: I

Class: B.Com (General Only)

Name of the Faculty: Qaiser Sultana

Topic/Unit/Chapter	No. of Classes (From ------- to------)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit – I Foreign Trade – An Introduction Documentation in Foreign Trade	16	1. To provided knowledge about foreign trade is Domestic Trade 2. To know about different types of documents used in Foreign Trade	Smart board is used along with the Black Board	Objective & Subjective Question bank is given with E-Content	1. To Provide the students with a through grounding in the theory of international trade. 2. Explain business expansion abroad.
Unit – II Balance of Trade and Balance of the Payment Disequilibrium in Balance of Payments	16	1. To provide knowledge about BOT and BOP 2. To impart the information relating to disequilibrium in BOP	Smart board is used along with the Black Board	Objective & Subjective Question bank is given with E-Content	1. After studying this module one would be able to understand concept of Balance of Trade and Balance of payment. 2. Students will be able to understand the concept of Disequilibrium.
Unit – III Indian Trade Policy Foreign Exchange	16	1. To introduce about Indian Trade Policy	Smart board is used along	Objective & Subjective Question bank is	1. The Students will be able to understand the Indian Trade Policy and its objectives.

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Control		2. To known about Indian Foreign Exchange Trade Control Policy. 3. Know about current Export and Import Policy	with the Black Board	given with E-Content	2. Know about Major Foreign Trade Policies of India. 3. Students will acquire the knowledge related to export and import Trade Policies.
Unit – IV Growth and significance of Foreign Trade Regional Economic Groupings or Trade Blocs	16	1. To provide knowledge about trade blocs. 2. To impart knowledge relating to Growth and Significance of Foreign Trade			1. Students will come to know about importance of Foreign Trade. 2. Students will know about different types of organizations of Regional Economic Grouping
Unit – V IMF and World Bank UNCTAD and WTO, NDB, AIIB and TPP	16	1. To gain knowledge about International Economic Institutions its objectives & functions 2. To know about World Bank its objectives and Functions			1. Students will acquire the knowledge about Indian Monetary Fund And World Bank 2. Student will gain the knowledge about UNCTAD and WTO

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DEPARTMENT OF COMMERCE

Teaching Lesson Plan

2024-25

Subject: Business Organization and Management **Semester: I**

Class: B.Com (General) I Year **Name of the Faculty: Mrs.Asra Fatima**

Topic/Unit/Chapter	No. of Classes (From Dec 2024 to March 2024)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit - 1 Introduction and Forms of Business Organization	06/06/ 2024 26/06/2024	* Familiarize the students with the Various forms of Business organization	Smart Board along with Black Board	Internal Assessment &External Assessment	The students acquired the knowledge of the various forms of business organization
Unit - 2 Joint Stock Company	27/06/2024 20/07/2024	The emphasis is given to Corporate entities and its types	Smart Board along with Black Board	Internal Assessment & External Assessment	The students acquired the knowledge of the formation of Joint stock company
Unit - 3 **Functions of Management**	22/07/2024 08/08/2024	The familiarize the students with the functions and principles of management	Smart Board along with Black Board	Internal Assessment & External Assessment	The students acquired the knowledge of the functions and principles of management
UNIT-IV **Planning and Organizing**	09/08/.2024 to 11/09/2024	The familiarize the students with the planning and organization of corporate entities	Smart Board along with Internal Assessment	Internal Assessment & External Assessment	The students acquired the knowledge of the Planning and organization

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Lesson Plan

2024-2025

DEPARTMENT OF COMMERCE

Subject: FOREIGN TRADE

Class: B.COM (GENERAL) First Year

Semester: I

Name of the Faculty: MOHAMMED AMJAD

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT - I:INTRODUCTION	15/07/24 -07/08/24	*To provide the students to understand the knowledge of Foreign Trade	Classroom Teaching,	Oral Question & Answer	*Students understood the concept of foreign trade
UNIT - II : BALANCE OF TRADE & BALANCE OF PAYMENTS	08/08/24 -24/08/24	*To Provide the Knowledge about the Balance of Trade & Balance of Payments	Smart Class	Oral Question & Answer	*Students learnt about the Balance of Trade & Balance of Payments
UNIT - III : INDIAN TRADE POLICY	27/08/24 -09/09/24	*To provide the students to understand the Indian Trade Policy	Smart Class	Oral Question & Answer	*Students understood the concept of Indian Trade Policy
UNIT - IV : FOREIGN TRADE & TRADE BLOCS	10/09/24 -24/09/24	*To provide the students to understand the objectives of Foreign Trade & Trade Blocs	Smart class & PPT Presentation	Oral Question & Answer	*Students understood the concept of Foreign Trade & Trade Blocs
UNIT – V : INTERNATIONAL ECONOMIC INSTITUTIONS	25/09/24 -26/10/24	*To provide the students to understand the concepts of International Economic Institutions	PPT Presentation	Oral Question & Answer	*Students understood the concepts of International Economic Institutions

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Lesson Plan

2024-2025

Subject: Financial Accounting

Class: B.COM (GENERAL) First Year

DEPARTMENT OF COMMERCE

Semester: I

Name of the Faculty: MOHAMMED AMJAD

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT - I:INTRODUCTION TO FINANCIAL ACCOUNTING: Financial Accounting: Introduction – Definition – Evolution – Functions-Advantages and Limitations - Branches of Accounting – Accounting Principles: Concepts and Conventions-Accounting as an Information System-Importance and Scope- Limitations; Users of accounting information;– Generally Accepted Accounting Principles (GAAP); Nature of Accounts.	15/07/24 -03/08/24	*To provide the students to understand the knowledge of Financial Accounting, Branches of Accounting & GAAP	Classroom Teaching,	Oral Question & Answer	*Students can Demonstrate the Financial Accounting and their uses.
UNIT - II : TYPES OF BOOKS (PRIMARY AND SECONDARY) :The Accounting Equation Rules of Debit and Credit; Recording Transactions in Journal; Preparation of Ledger Accounts; ledger balancing; Opening and Closing Entries-Preparation of Trial Balance.	07/08/24 -31/08/24	*To Provide the Knowledge about the Books of Accounts	Smart Class	Solve Simple Problems of Accounting	*Students can demonstrate the Journal entries and the accounting Rules as well as preparation of Ledger Accounts and Trial Balance.
UNIT - III : PREPARATION OF FINANCIAL STATEMENTS :Capital and Revenue Expenditure – Capital and Revenue Receipts: Meaning and Differences - Differed Revenue Expenditure Trading Account- Profit & Loss Account and Balance Sheet- Adjustment Entries- Understanding contents of financial statements of a joint stock company as per the Companies Act 2013.	03/09/24 -14/09/24	*To provide the students to understand the preparation of Final Accounts and also understanding the concepts of Joint Stock Company as per the companies Act 2013	Smart Class	Solve simple Problems	*Demonstrate how to solve Final accounts
UNIT - IV : FINANCIAL STATEMENT ANALYSIS USING RATIOS :Objective of financial statement analysis- sources of information; Techniques of financial statement analysis: Horizontal analysis- Vertical analysis and Ratio Analysis; Financial Ratios: Meaning and Usefulness of Financial Ratios. Analysis of ratios . Liquidity Ratios- Solvency Ratios-Profitability Ratios- and Turnover Ratios; Limitation of ratio analysis.	17/09/24 -05/10/24	*To provide the students to understand the objectives of Financial Statement Analysis. *To provide the students to understand the concept of Ratio Analysis.	Smart class & PPT Presentation	Solve Simple Problems	*Demonstrate about the Financial Statement Analysis. *Demonstrate the Horizontal and Vertical Analysis . *Demonstrate the types of Ratios
UNIT – V : INDIAN ACCOUNTING STANDARDS (IND-AS) :Concept- benefits- procedure for issuing Ind- AS in India-salient features of Ind-AS issued by ICAI; International Financial Reporting Standards (IFRS): Main features- uses and objectives of IFRS- IFRS issued by IASB.	15/10/24 -26/10/24	*To provide the students to understand the concepts of Indian Accounting Standards.	PPT Presentation	Write a Short notes of Indian Accounting Standards	*Demonstrate about the Indian Accounting Standards. *Demonstrate about the features ,uses and objectives of IFRS.

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Teaching Lesson Plan

Academic year 2024-2025

DEPARTMENT OF COMMERCE

Subject: FINANCIAL ACCOUNTING 2

Semester 2nd (1st year Computers)

Name of the Faulty: KHADIJA

Topic / Unit / Chapter	No. of Classes from Dec 24 to March 25	Objectives	Teaching Aid Used	Assessment	Outcomes
1.	1-16 classes	To introduce the students knowledge about Financial Accounting Unit 1, Bills of Exchange	Classroom Teaching Black Board	Objective & Subjective Question Bank is given with E-content	Students will be able to know the meaning and introduction of bills of exchange, promissory notes, accounting treatment, trade bills, book of drawer and acceptor, honor & dishonor of bills, renewal of bills, bill retiring, bills under rebate, accommodation bills including problems
2	17-32 classes	To initiate the knowledge on Financial Accounting Unit 2, Consignment Accounts	Classroom Teaching Black Board	Objective & Subjective Question Bank is given with E-content	Students learn about the meaning and features of consignment, account sales, commission accounting treatment in the books of consigner and consignee, valuation of consignment stock, treatment of normal and abnormal laws, invoice of goods at a price higher than cost price (including problems)
3	33-48 classes	To initiate the knowledge on Financial Accounting Unit 3, Joint Venture Accounts	Classroom Teaching Black Board	Objective & Subjective Question Bank is given with E-content	Students will be able to learn about the meaning and features of joint venture, differences between joint venture and consignment accounts, methods of keeping records for joint venture accounts, methods of recording co-venture books – separate set of books, joint bank account, memorandum joint venture account (including problems)
4	49-64 classes	To initiate understanding of Financial	Classroom Teaching Black Board	Objective & Subjective Question Bank	Students will learn meaning and features of single entry system and double entry system books of accounts, maintain

		Accounting Unit 4, Incomplete Records		is given with E-content	ascertainment of profit statement of affairs and conversion method (including problems)
5	65-80 classes	To teach students about Financial Accounting Unit 5, Accounting of Non-profit Organizations	Classroom Teaching Black Board	Objective & Subjective Question Bank is given with E-content	Students will learn about the features of non-profit organizations, receipts and payments, accoun, income and expenditure account, balance sheet (including problems)

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DEPARTMENT OF COMMERCE

Teaching Lesson Plan

2024-25

Subject: Programming with C & C++ **Semester: II**

Class: B.Com(Computer Application) I Year **Name of the Faculty: Dr. Yasmeen Banu**

Topic/Unit/Chapter	No. of Classes (From Dec 2024 to March 2024)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-I: INTRODUCTION TO C LANGUAGE, VARIABLES, DATA TYPES AND OPERATORS: Introduction: Types of Languages- History of C language – Basic Structure –Programming Rules – Flow charts-algorithms–Commonly used library functions - Executing the C Program - Pre-processors in "C"- Keywords & Identifiers – Constants – **Variables:** Rules for defining variables - Scope and Life of a Variable– **Data types** - Type Conversion - Formatted Input and Output operations. **Operators:** Introduction – Arithmetic – Relational – Logical – Assignment - Conditional - Special - Bitwise - Increment / Decrement operator.	11/12/2024 to 31/12/2024 (13 Day)	*To Provide and understand the concept of C Language and operators.	Classroom Teaching	Oral Question & Answer	*Student can create a Flow chart and explain the basic structure of C program, Algorithms and basic programming skills
UNIT-II: WORKING WITH CONTROL STATEMENTS, LOOPS: Conditional statements: Introduction - If statements - If-else statements – nested if-else – break statement-continue statement-go to statement-Switch statements. **Looping statements:** Introduction- While statements – Do-while statements - For Statements-nested loop statements.	2/1/2025 to 25/1/25 (18 Days)	*student understand the concepts of looping statement	PPT Presentation	MCQ	*student demonstrate Control structures for looping in the programs.
UNIT-III: FUNCTIONS, ARRAYS AND STRINGS : Functions: Definition and declaration of functions- Function proto type- return statement- types of functions-formatted and unformatted functions. **Built in functions:** Mathematical functions - String functions - Character functions - Date functions. **User defined functions:** Introduction - Need for user defined functions - Elements of functions – Function call – call by value and call by reference - Recursive functions.**Arrays:** Introduction - Defining an array - Initializing an array –characteristics of an array- One dimensional array – Two dimensional array – Multi dimensional array. **Strings:** Introduction - Declaring and initializing string - Reading and Writing strings - String standard functions.	27/1/25 to 8/2/25 (12 Days)	*student s understand with the concepts of Functions, Arrays and String.	Lab	PPT presentation on Arrays and Functions	* An ability to Define functions and different types of functions *. Developing programs using Arrays

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UNIT-IV: POINTERS, STRUCTURES AND UNIONS: Pointers: Features of pointers- Declaration of Pointers-arithmetic operations with pointers. **Structures:** Features of Structures - Declaring and initialization of Structures –Structure within Structure- Array of Structures- Enumerated data type-**Unions**-Definition and advantages of Unions comparison between Structure & Unions.	17/2/25 to 1/3/25 (12 Days)	*To provide the students to understand the concept of Structure, Pointers & Union	PPT Presentation		* Ability to develop programs using Pointers * students able to explain advantages of unions.
UNIT-V: OBJECT ORIENTED CONCEPTS USING C++ : Object Oriented Programming: Introduction to Object Oriented Programming - Structure of C++ – Simple programof C++– Storage Classes-Similarities and Differences between C & C++ - Data.-Members-Member Functions - Object Oriented Concepts-Class-Object-Inheritance-Polymorphism-Encapsulation-Abstraction.	3/3/25 to 31/3/25 (18 Days)	*To provide the students to understand with the concepts of Object-oriented Programming.	Lab		* . Describe the object-oriented programming approach in connection with C++ * students able to explain the functions of members.

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Lesson Plan

2024-2025

Subject: Business Statistics

Class: Class: BCOM (GENERAL) First Year

Semester: II

Name of the Faculty: MOHAMMED AMJAD

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT -I : INTRODUCTION	10/06/24-24/06/24	* The objective of this unit is to study about origin & development of statistics	Classroom Teaching,	Oral Question & Answer	*Students will be able to have clear understanding about origin & development of statistics
UNIT–II : DIAGRAMMATICAL & GRAPHIC PRESENTATION	25/06/24-06/07/24	* The objective of this unit is to study about the diagrammatical & graphic presentation	PPT Presentation	MCQ	*Understand about the diagrammatical & graphic presentation
UNIT–III : MEASURES OF CENTRAL TENDENCY	08/07/24-31/08/24	* The objective of this unit is to study about the measures of central tendency	PPT Presentation	Oral Question & Answers	*Learn about the concepts of measures of central tendency
UNIT–IV: MEASURES OF DISPERSION, SKEWNESS & KURTOSIS	03/09/24-05/10/24	* The objective of this unit is to study about the measures of dispersion, skewness & kurtosis	Teaching on Smart Board	PPT Presentation	*Understand the concept and process of measures of dispersion, skewness & kurtosis
UNIT–V : CORRELATION	15/10/24-26/10/24	* The objective of this unit is to study about correlation	Chart Presentation	Prepare chart on Market Structure	* Understand the concept and process of correlation

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SUBJECT: BANKING AND FINANCIAL SERVICES DEPARTMENT OF COMMERCE

TEACHING LESSON PLAN BY **SALMA YASMEEN**

Class: B.COM (GEN) 1ST YEAR 2ND SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Introduction: Functions, E-Banking, Objectives, Functions, NABARD, SIDBI.	15/1/25 to 29/1/25	To Equip the students with introduction to banking	Smart board along with black board & PPT's	Internal Assessment and assigning students some Projects based on topic	Students are able to provide knowledge about the concepts of banking
Unit-II Banker and Customer Relation: KYC norms, Opening accounts.	16 30/1/25 to 10/2/25	To enable the students about Banker and Customer Relationship	Smart board along with black board & PPT's	Internal Assessment and assigning students some Projects based on topic	Students understand about customer and banker relationship
Unit-III Negotiable Instrument: Description & Special Features, Duties, Types.	18 11/2/25 to 27/2/25	To Provide knowledge about Negotiable Instruments	Smart board along with black board & PPT's	Internal Assessment and assigning students some Projects based on topic	Students are able to provide knowledge about Negotiable instruments
Unit-IV Introduction to Financial Services: Meaning, Functions, Classifications ,Instruments .	10 28/2/25 to 8/3/25	To equip the students with Introduction To Financial Services	Smart board along with black board & PPT's	Internal Assessment and assigning students some Projects based on topic	Students are able to provide the knowledge about Financial services
Unit-V Financial Services: Services of Merchant, Problems, scope, Venture, Leasing, sale, Discounting concepts.	22 10/3/25 to 22/3/25	To Gain knowledge about financial services	Smart board along with black board & PPT's	Internal Assessment and assigning students some Projects based on topic	Students are able to provide the knowledge about Financial services

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DEPARTMENT OF COMMERCE

SUBJECT: FINANCIAL ACCOUNTING II TEACHING LESSON PLAN BY : syeda nafeesa

Class: B.COM (Comp.) 1ST YEAR 2 SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I **BILLS OF EXCHANGE** Bills of Exchange - Definition- Distinction between Promissory note and Bills of exchange	18/12/24 To 16/1/25 2o	To introduce students about Bills of exchange	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about Bills of exchange.
Unit-II **CONSIGNMENT ACCOUNTS:** Consignment– Features–invoice - Account sales – -Accounting treatment of the consignor and the consignee - Valuation of consignment stock – (Including problems)	17/1/25 To 8/2/25 20	To keep update Students regarding Consignment account.	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students understand about consignment account and how to maintain it
UNIT III **JOINT VENTURE ACCOUNTS:** - Methods of Keeping Records for Joint Venture Accounts-Method of Recording in co-ventures books- (Including problems)	10/2/25 to 21/2/25 11	To know about Joint venture account and its method	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about joint venture accounts
Unit-IV **ACCOUNTS FROM INCOMPLETE RECORDS:** Single Entry System – Meaning - Features–Difference between Single Entry and Double Entry systems	22/2/25 To 11/3/25 7	To keep knowledge regarding accounts from incomplete record .	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to Understand the methods how to complete the incomplete accounts.
Unit-V **ACCOUNTING FOR NON-PROFIT ORGANIZATIONS:** — Features – Receipts and Payments – Income and Expenditure Account –	3/3/25 To 8/3/25 6	To enable the students about accounts for non – profit organization	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students could able to know how the non profit organizations maintain their accounts.

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DEPARTMENT OF COMMERCE

SUBJECT: BUSINESS LAW TEACHING LESSON PLAN BY : ASRA SHIREEN

Class: B.COM (Comp.) 1YEAR SEMESTER : 2

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I INDIAN CONTRACT ACT Agreement and contract –types of contract consideration essentials of valid contract –breach of contract –modes of discharge of contract.		To introduce students about Indian contract act.	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about contract and Related factors
Unit-II Sale of goods act and Consumer Protection act ; Contract of sale essentials of valid sale and agreement to sell –conditions and warranties –consumer protection act 1986-consumer protection councils.		To keep students update about sale of goods act and consumer protection act.	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students understand about act related to sales And consumer protection act.
Unit-III INTELLECTUAL PROPERTY RIGHT Trade marks-its registration –patents-kinds of patents copy right .and other property right.		To know about intellectual property right , like trade marks and patents.	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about intellectual property Rights ,like trademarks and patterns.
Unit-IV Management of companies and meetings Director duties and liabilities corporate social responsibility.-Meetings agenda-annual general body meetings.		To keep knowledge About management of companies , method to conduct different meetings.	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide the understanding regarding How companies get manage. and importance of meetings
Unit-V WINDING UP Modes of winding up –voluntary and compulsory winding up –removal of name of company from registrar of company.		To enable the students understand about process of winding up of a company.	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students able to know how the companies get wind up its mode and procedure.

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Teaching Lesson Plan

2024-2025

DEPARTMENT OF COMMERCE

Subject: BUSINESS LAWS
Class: BCOM (GENERAL) First Year
Semester: II
Name of the Faculty: BUSHRA FATIMA

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT -I: INDIAN CONTRACT ACT	11/12/24-24/12/24	* The objective of this unit is to study about Indian Contract Act	Classroom Teaching,	Oral Question & Answer	* The objective of this unit is to study about Indian Contract Act
UNIT -II: SALE OF GOODS ACT & CONSUMER PROTECTION ACT	31/12/24-09/01/25	* The objectives of studying sale of goods act & consumer protection act is done	Classroom Teaching & Lab	MCQ	* The objectives of studying sale of goods act & consumer protection act is done
UNIT -III: INTELLECTUAL PROPERTY RIGHTS & RTI	10/01/25-31/01/25	*The course also attempts to enable students to understand the concepts of intellectual property rights & RTI	PPT Presentation	MCQ	*The course also attempts to enable students to understand the concepts of intellectual property rights & RTI
UNIT - IV: MANAGEMENT OF COMPANIES & MEETINGS	03/02/25-11/02/25	* The objective is to learn about the management of companies & meetings	Classroom teaching	Oral Question & Answer	* The objective is to learn about the management of companies & meetings
UNIT – V: WINDING UP	12/02/25-04/03/25	*To study the system and process of winding up of the company	PPT Presentation	Oral Question & Answer	*To study the system and process of winding up of the company

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DEPARTMENT OF COMMERCE

SUBJECT: FINANCIAL ACCOUNTING II

TEACHING LESSON PLAN BY : ASRA SHIREEN

Class: B.COM (Comp.) 1ST YEAR 2 SEMESTER

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I **BILLS OF EXCHANGE** Bills of Exchange - Definition- Distinction between Promissory note and Bills of exchange	18/12/24 To 30/12/25 12	To introduce students about Bills of exchange	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about Bills of exchange.
Unit-II **CONSIGNMENT ACCOUNTS:** Consignment– Features–invoice - Account sales – -Accounting treatment of the consignor and the consignee - Valuation of consignment stock –(Including problems)	2/1/25 To 14/1/25 15	To keep update Students regarding Consignment account.	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students understand about consignment account and how to maintain it
UNIT III **JOINT VENTURE ACCOUNTS:** - Methods of Keeping Records for Joint Venture Accounts-Method of Recording in co-ventures books- (Including problems)	15/1/25 to 25/1/25 11	To know about Joint venture account and its method	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to provide knowledge about joint venture accounts
Unit-IV **ACCOUNTS FROM INCOMPLETE RECORDS:** Single Entry System – Meaning -Features– Difference between Single Entry and Double Entry systems	27/1/25 To 7/2/25 10	To keep knowledge regarding accounts from incomplete record .	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students are able to Understand the methods how to complete the incomplete accounts.
Unit-V **ACCOUNTING FOR NON-PROFIT ORGANIZATIONS**: — Features – Receipts and Payments – Income and Expenditure Account – Balance Sheet(Including problem	10/2/25 To 15/3/25 33	To enable the students about accounts for non – profit organization	Smart board along with black board	Internal Assessment and assigning students some practice problem in computer lab	Students could able to know how the non profit organizations maintain their accounts.

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Teaching Lesson Plan

Academic year 2024-2025

Subject: BUSINESS LAW

Semester 2nd (1st year E-Commerce)

Name of the Faulty: KHADIJA

Topic / Unit / Chapter	No. of Classes from Dec 24 to March 25	Objectives	Teaching Aid Used	Assessment	Outcomes
1.	1-16 classes	To introduce the students knowledge of Business Law, Unit 1 Introduction & history of law in India	Classroom teaching Black Board	Objective & Subjective Question Bank is given with E-content	Students will be able to know the meaning and introduction of law and business, history of law in India in ancient Indian period
2	17-32 classes	To initiate the knowledge on Business law Unit 2 Sale of goods and consumer protection	Classroom teaching Black Board	Objective & Subjective Question Bank is given with E-content	Students learn about the contract of sales, consumer protection Act 1986, consumer dispute redressal agencies appeals
3	33-48 classes	To initiate the knowledge on Business law Unit 3, Promoting intellectual property rights	Classroom teaching Black Board	Objective & Subjective Question Bank is given with E-content	Students will be able to learn about the features of other intellectual property rights, kinds of patents, terms of copyrights, trademarks, property rights, trade secrets and geographical indications
4	49-64 classes	To initiate understanding management of Business law Unit 4, Companies and meetings	Classroom teaching Black Board	Objective & Subjective Question Bank is given with E-content	Students will learn about the features of duties, director qualification, disqualification, position, appointments, removal, liabilities, loans, remuneration, managing director, corporate governance meeting, proxy agenda, annual general body meeting, extra-ordinary general body meetings, board meetings

5	65-80 classes	To teach students about Business law Unit 5, Engagements of winding up	Classroom teaching Black Board	Objective & Subjective Question Bank is given with E-content	Students will learn about the features of meaning, modes of winding up, winding up tribunal, voluntary winding up, compulsory winding up, consequences of winding up, removal of name of the company from registers of company, insolvency and bankruptcy code 2016

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Teaching Lesson Plan

2024-2025

Subject: Psychology **Semester: 1st**

Class: B.A 1st Year **Name of the Faculty: Mrs. Mehenoor Fatima**

General Psychology

Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-1					
Historical Foundations of Psychology	2	Understand nature, goals, and scope of psychology	Lecture + PPT	Short test	Able to define psychology and explain scope
Schools of	2	Differentiate between Structuralism,	Charts, PPT	MCQs, Q&A	Students can compare

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DEPARTMENT OF PSYCHOLOGY
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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Psychology		Functionalism, Psychoanalysis, Behaviourism, Gestalt			different schools
Contemporary Approaches	2	Learn Cognitive, Humanistic, Existential approaches	Case studies, Videos	Class discussion	Students apply modern approaches
Methods of Psychology	2	Learn Introspection, Observation, Case Study, Survey, Experimental	Activity-based methods	Practical assignment	Students understand research tools
Biological Basis of Behaviour	2	Understand nervous system, structure of neuron, brain & spinal cord functions	Brain charts, Diagrams, Videos	Viva, Written test	Explain link between biology & behaviour
Hormonal Basis of Behaviour	1	Understand major endocrine glands and	Charts, Diagrams	Oral test	Students explain hormonal

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		functions			influence on behaviour
Mechanisms of Heredity	1	Role of chromosomes, genes, heredity & environment	Genetic charts, Diagrams	Assignment	Explain hereditary influences
MODULE-2 **Sensation**	3	Learn sensory thresholds, types of sensation, sensory adaptation	Sensory test demos, PPT	Oral test	Understand sensory thresholds and adaptation
Attention	3	Understand voluntary & involuntary attention, distractions, span, division	Stroop test, Charts, Activities	Class activity	Analyze attention span and division
Perception	4	Learn perceptual constancies, illusions,	Illusion cards, Case studies,	Practical assignment	Recognize perceptual

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		hallucinations, ESP	Videos		errors and distortions
MODULE-3 **Memory & Forgetting**	4	Learn types of memory, models, curve of forgetting, theories of forgetting, methods of improving memory	Memory cards, PPT, Flowcharts	Class test, Oral recall	Understand methods of measuring and improving memory
Thinking & Reasoning	3	Deductive & inductive reasoning, theories of thinking (Bruner & Sullivan)	Puzzles, Case examples	Class discussion	Apply logical reasoning
Problem Solving	3	Learn problem-solving cycle, impediments & strategies (algorithm, heuristics, means-end	Worksheets, Flowcharts	Practical activity	Use structured strategies to solve problems

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		analysis)			
Creativity	2	Learn characteristics and stages of creative people	Brainstorming activities, Case studies	Assignment	Develop creative approaches
MODULE-4 **Learning**	6	Learn classical & instrumental conditioning, sign learning, learning by insight & observation, role of motivation, reinforcement, transfer of learning	Pavlov experiment video, Charts, PPT	Viva, MCQs, Written test	Apply learning principles in daily life
Intelligence	6	Learn IQ, theories of intelligence (Thorndike, Spearman, Thurstone, Sternberg, Gardner),	IQ test samples, PPT, Diagrams	Written test, Class discussion	Differentiate types of intelligence and apply to

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		measurement & variation in intellectual ability			practical contexts
MODULE-5 **Motivation**	5	Learn functions of motives, physiological & psychosocial motives, unconscious motivation, Maslow's hierarchy	PPT, Maslow's pyramid chart, Motivational videos	Written test	Explain types of motives & Maslow's hierarchy
Emotion	5	Learn definition, development, physiological basis, theories (James–Lange, Cannon–Bard, Schachter–Singer), adaptive & disruptive functions, measurement	Emotion wheel chart, Videos	Viva, Activity	Apply theories of emotion in real-life situations

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Subject: Psychology **Semester: 2nd**

Class: B.A 1st Year **Name of the Faculty: Mrs. Mehenoor Fatima**

Personality Theories and Assessment

Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-1 **Nature of Personality**	2	Define and explain characteristics of personality	PPT, Whiteboard	Oral test	Students understand meaning & traits of personality
Factors influencing Personality	3	Study biological, social, and cultural influences	Charts, Diagrams	Class discussion	Explain role of heredity & environment
Psychological Factors	3	Learn about significant and traumatic experiences influencing	Case studies, Examples	Assignment	Apply psychological factors in analysis

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		personality			
MODULE-2					
Freud's Psychoanalytic Theory	3	Understand id, ego, superego, defense mechanisms	Diagrams, PPT, Case studies	Written test	Apply psychoanalysis in understanding personality
Erikson's Psychosocial Theory	3	Learn 8 stages of psychosocial development	Chart of stages	Oral test	Explain lifespan development
Rogers' Theory of Self	2	Study self-concept, conditions of worth, self-actualization	PPT, Videos	Class activity	Students recognize role of self in personality
MODULE-3					
Bandura's Social Learning Theory	2	Understand observational learning and	Video demonstration	Class discussion	Apply social learning to behaviour

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		modeling			
Trait Theories (Allport & Cattell)	3	Study trait classification & factor analysis	Trait charts, PPT	Written test	Explain trait-based personality
Type Theories (Kretchmer, Sheldon, Galton)	3	Learn classification of personality types	Charts, Diagrams	MCQs	Compare body-type theories
Eysenck's Trait-cum-Type Theory	2	Learn introversion–extroversion, neuroticism, psychoticism	Personality scales	Class test	Apply Eysenck's model
MODULE-4		Study observation, checklists, rating scales, inventories, interviews	PPT, Assessment scales	Practical demo	Students apply assessment tools
Nature & Types of Assessment	3				

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Projective Techniques (Rorschach, TAT, Sentence Completion)	4	Learn projective tests for unconscious aspects of personality	Test samples, Case studies	Practical assignment	Students interpret projective test results
MODULE-5					
Concept of Psychological Testing	2	Define psychological tests and importance	PPT, Whiteboard	Short test	Students understand purpose of testing
Intelligence & Personality Tests (Intro)	3	Study types of psychological tests	Test booklets, PPT	Class discussion	Differentiate intelligence & personality tests
Characteristics of Good Test	3	Learn standardization,	Charts, PPT	Assignment	Identify qualities of good tests

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		reliability, validity, norms			
Classification of Tests	4	Study individual vs group, verbal vs non-verbal, power vs speed tests	Test manuals, Charts	Practical exercise	Students classify tests accurately

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Subject: Psychology **Semester:3rd**

Class: B.A 2nd Year **Name of the Faculty: Mrs.Nilofer Nasrin**

Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-1					
Definition, Nature, Scope & Methods	3	Understand social psychology methods (observation, survey, correlational, field study, experimental)	PPT, Case studies	Written test	Students explain scope & methods of social psychology
Attribution Theories	4	Learn attribution models (Helder, Jones & Davis, Kelly, Weiner)	Diagrams, Flowcharts	Class discussion	Apply attribution models to social behaviour
Errors in Attribution	2	Understand biases (fundamental error, actor-observer, self-serving bias)	Examples, Case studies	Assignment	Identify attribution errors
Impression Formation &	2	Learn techniques of impression formation	Role play, Videos	Practical	Apply impression management in

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Management		and self-presentation		exercise	social situations
Communication	4	Learn types, patterns, barriers, rumors & propaganda	Communication charts, Group activity	Viva, Activity	Students analyze effective & ineffective communication
MODULE-2					
Attitude: Nature & Definition	2	Define and identify features of attitude	PPT, Whiteboard	Oral test	Students understand components of attitude
Formation of Attitudes	3	Learn conditioning & social learning theory	Case studies, Videos	Class discussion	Explain attitude formation
Attitude Change	3	Learn balance theory, cognitive dissonance, self-perception, reactance	PPT, Flowcharts	Written test	Apply theories to attitude change
Measurement of	3	Learn Likert,	Scales,	Practical	Students use tools

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Attitude		Bogardus, Semantic Differential methods	Questionnaires	exercise	to measure attitudes
Prejudice & Discrimination	4	Understand origin, causes, and techniques of reducing prejudice	Case studies, Group activity	Assignment	Recognize and address prejudice in society
MODULE-3 **Pro-Social Behaviour**	3	Define altruism, bystander effect, steps in pro-social behaviour	Videos, Case studies	Class discussion	Students differentiate pro-social behaviour & altruism
Factors Influencing Pro-Social Behaviour	3	Learn situational, personal, emotional, and dispositional factors	Flowcharts, Case examples	Assignment	Apply factors to real-life situations
Aggression	2	Define aggression and types	PPT, Examples	Oral test	Students explain aggression concepts

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Determinants of Human Aggression	4	Learn frustration, provocation, displaced aggression, media violence, personal and situational factors	Case studies, Videos	Written test	Students analyze causes of aggression
MODULE-4 Groups	4	Understand nature, structure, functions & group performance	Group activity, PPT	Class test	Students explain group processes
Decision Making by Groups	2	Learn group polarization, risky shift, groupthink	Case studies	Class discussion	Apply group decision theories
Group Dynamics	3	Study conformity, compliance, obedience, cooperation, competition	Experiments (Asch, Milgram)	Practical demo	Analyze group influence on behaviour

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Leadership	4	Learn traits, types, studies on leadership behaviour	Charts, Videos	Assignment	Apply leadership theories
Socio-Cultural Psychology (Indian Context)	4	Study cultural identity, variables, transition, migration, disadvantaged groups	PPT, Case studies	Viva, Essay	Students understand culture & social issues in India

Experimental Psychology & Statistics

Part A: Basics of Statistics

Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Importance of Statistics in Psychology	2	Understand role of statistics in research	PPT, Whiteboard	Class test	Students explain need for statistics
Measurement Scales	3	Learn nominal, ordinal, interval, ratio scales	Charts, Examples	Assignment	Apply measurement scales in research

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Data Collection Techniques	2	Learn questionnaire, inventories, scales	Case examples	Class activity	Students design small data tools
Frequency Distribution	3	Learn grouped & cumulative frequency	Worksheets, Graph paper	Class exercise	Construct frequency tables
Graphical Representation	5	Draw polygon, histogram, ogive, pie chart	Graph sheets, PPT	Practical test	Represent data visually & interpret
Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-2 Normal Distribution	4	Learn characteristics & applications; skewness, kurtosis	Normal curve charts	Written test	Students apply normal probability curve
Measures of Central Tendency	4	Compute mean, median, mode; learn uses & disadvantages	Worksheets, Calculators	Assignment	Solve CT problems
Measures of Variability	4	Compute range, quartile, average deviation, variance,	Worksheets	Practical test	Apply variability measures

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		SD			
Percentiles & Ranks	3	Learn calculation of percentiles & ranks	Graphs, Worksheets	Assignment	Interpret student data via percentiles

Part B: Experimental Psychology (Practical Work)

Area	Experiments	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Psycho-Physics	Reaction rates, Two-point threshold, Muller-Lyer illusion, Brightness discrimination, Size constancy	6	Learn psychophysical methods & thresholds	Instruments, Charts	Practical test	Students perform and interpret results
Attention	Span of attention, Division of attention, Effect of	4	Study types & limits of attention	Stroop test, Materials	Practical activity	Analyze limits of attention

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Area	Experiments	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
	distraction					
Learning	Trial & error, Insight, Transfer of learning, Massed vs spaced, Part vs whole, Serial learning, Habit interference, Effect of knowledge	8	Understand principles of learning	Puzzles, Lab material	Practical exam	Apply learning principles
Remembering & Forgetting	Recognition vs recall, STM for digits, Effect of meaning on retention	5	Study retention & forgetting processes	Word lists, Number charts	Practical test	Analyze memory processes

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Subject: Psychology **Semester:4th**

Class: B.A 2nd Year **Name of the Faculty: Mrs. Nilofer Nasrin**

ABNORMAL PSYCHOLOGY

Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-1 Concept of Normality & Abnormality	2	Define and differentiate normal vs abnormal behaviour	PPT, Case examples	Oral test	Students understand diagnostic differences
Classification (DSM V, ICD-10)	2	Learn standard classification systems	Manuals, Charts	Assignment	Students apply classification to cases
Stress (Nature & Types)	3	Study stressors and characteristics	Case studies, Flowcharts	Written test	Explain stress causes
Factors Predisposing to Stress	2	Learn personality & social factors	PPT, Case examples	Class discussion	Students analyze vulnerability factors
Immune System & Stress	2	Understand link between stress & immunity	Diagrams, PPT	Viva	Explain physiological impact

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Coping with Stress	2	Learn coping mechanisms	Role-play, Worksheets	Activity-based assessment	Apply stress management techniques
Adjustment & Stress Disorders	3	Learn ASD, PTSD and related disorders	DSM-V case vignettes	Short test	Diagnose & differentiate trauma disorders
MODULE-2 Phobias, Panic Disorder, GAD	3	Understand symptoms & treatment	DSM case studies, PPT	MCQs	Recognize anxiety disorders
Somatic Symptom & Conversion Disorders	3	Learn physical symptom-based disorders	Case illustrations	Written test	Differentiate somatic presentations
Dissociative Disorders	2	Study dissociative amnesia & identity disorder	Videos, PPT	Assignment	Explain dissociation mechanisms
Obsessive Compulsive Disorder	2	Learn symptoms, causes & treatments	Case reports	Class test	Apply OCD diagnostic features
MODULE-3 Depression	3	Learn symptoms & characteristics	PPT, Clinical cases	MCQ test	Students identify depression

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Bipolar Disorder	2	Learn symptoms & differences from depression	Mood charts	Class activity	Differentiate unipolar vs bipolar
Schizophrenia	4	Learn positive & negative symptoms, diagnostic features	DSM guidelines, Case vignettes	Assignment	Explain schizophrenia spectrum
Personality Disorders	3	Learn types & features of personality disorders	Charts, DSM extracts	Written test	Apply personality disorder concepts
Suicide	3	Study risk factors, types of attempts, prevention	Case studies, WHO data	Essay & activity	Students learn prevention strategies
Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-4 Neurodevelopmental Disorders	3	Learn ADHD, Autism Spectrum Disorders	Case studies, PPT	Class test	Students identify neurodevelopmental disorders

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Neurocognitive Disorders	3	Learn Alzheimer's, Parkinson's, Delirium	Clinical examples, Videos	Assignment	Explain age-related disorders
Addictive Disorders	3	Study alcohol, nicotine, drug abuse	WHO reports, PPT	Class discussion	Recognize addiction symptoms
Biological Approaches	3	Learn brain dysfunctions, drug therapies, ECT, psychosurgery	Diagrams, Case illustrations	Viva	Apply biological treatments
Psychological Approaches	3	Study psychodynamic, behavioural, cognitive, family systems	Case illustrations	Practical assignment	Understand therapy applications
Socio-Cultural Approaches	2	Learn cross-cultural issues, therapies	Cultural case studies	Essay	Recognize cultural impacts in therapy
Prevention Programs	2	Learn prevention	WHO	Short test	Apply prevention

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		& intervention programs	guidelines, Reports		strategies

Practicum (Inferential Statistics & Behavioural Experiments)

Part-A Inferential Statistics

Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-1					
Sampling (Probability & Non-probability)	3	Learn methods of sampling	PPT, Charts	Class test	Students apply sampling techniques
Hypotheses (Null & Alternative)	2	Understand hypothesis formulation	Examples, Case studies	Oral test	Students frame hypotheses
Hypothesis Testing (Significance, df)	3	Learn significance levels & degrees of freedom	Worksheets	Assignment	Apply hypothesis testing
Type I & II Errors	2	Understand research	Examples	Written test	Distinguish error

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		errors			types
t-distribution & t-test	4	Learn computation & assumptions	Worksheets, Graphs	Practical problem solving	Students compute t-tests
MODULE-2					
Correlation: Meaning & Types	3	Understand positive, negative, partial & multiple correlation	Charts, Examples	Class test	Students classify correlations
Pearson's Product Moment	3	Learn computation of Pearson's r	Worksheets, Calculators	Assignment	Compute correlation
Spearman's Rank Order	3	Learn non-parametric correlation	Practice sheets	Class test	Apply rank correlation
Chi-Square Test	4	Learn computation for 2x2 table	Worksheets	Practical exam	Apply Chi-square test
Psychological Tests (Intro)	2	Study types & characteristics of tests	Test manuals	Assignment	Students recognize test

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
					qualities

Part B: Behavioural Experiments

Area	Experiments	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Motivation	Level of aspiration, Goal setting, Approval motivation	3	Learn motivational processes	Scales, Worksheets	Practical	Apply motivational concepts
Emotion	Judgement of emotions, Achenbach's scale	2	Understand emotional responses	Emotion cards, Scales	Viva	Recognize emotions
Thinking	Mental set (Luchin's), Problem solving (puzzle),	3	Study thinking & problem	Puzzles, Worksheets	Practical	Apply problem-

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Area	Experiments	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
	Concept formation		solving			solving skills
Intelligence	SPM, Alexander pass along, Koh's block design	3	Learn intelligence measurement	Test booklets, Blocks	Practical	Administer & score IQ tests
Social Behaviour	Conformity, Sociometry, Bogardus scale, Leadership styles	4	Understand social behaviour	Group tasks, Scales	Activity	Apply social psychology concepts

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Subject: Psychology **Semester:5th**

Class: B.A 3rd Year **Name of the Faculty: Mrs.Nilofer Nasrin**

CHILD PSYCHOLOGY

Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-1					
Definition, Nature & Scope of Child Development	2	To introduce meaning and scope of child psychology	PPT, Notes	Oral test	Students define & explain scope
Concept of Human Development	3	Understand developmental tasks, lag & hazards	Charts, Case studies	Class test	Apply concepts to real-life cases
Principles of Development	2	To study key principles of child development	PPT, Worksheets	MCQs	Explain developmental principles
Heredity & Environmental Influences	3	Learn genetic & environmental impact on development	Diagrams, Examples	Assignment	Differentiate heredity vs environment

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-2					
Prenatal Development	3	Learn stages & factors influencing prenatal growth	Charts, PPT	Viva	Explain prenatal influences
Infancy – Reflexes & Motor Development	2	Study physical development in infancy	Videos, Diagrams	Class discussion	Recognize infant reflexes
Perceptual Development in Infancy	2	Learn sensory development	Case examples	MCQs	Students describe perceptual growth
Physical Growth & Factors	3	Understand biological & environmental factors	Growth charts	Assignment	Explain determinants of physical growth
Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-3					
Cognitive	3	Learn Piagetian & Vygotskian	PPT, Case studies	Class test	Apply theories of cognition

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Development		perspectives			
Language Development – Components	2	Understand phonological, semantic & grammatical development	Charts, Worksheets	Oral test	Recognize language stages
Chomsky's Theory of Language	2	Learn theory of innate language ability	PPT	MCQ test	Explain Chomsky's theory
Stages of Language Development	3	Study pre-linguistic & progressive language stages	Audio samples, Case studies	Assignment	Identify stages in real examples
MODULE-4 **Emotional Development**	3	Study emotional expression, regulation & empathy	Role-play, PPT	Class activity	Students explain emotions in children
Moral Development	3	Learn Piaget's & Kohlberg's theories	Case studies	MCQs	Apply moral development

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Topic / Unit / Chapter	No of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
					stages
Personality Development	3	Learn self-concept & self-esteem formation	Worksheets, PPT	Viva	Students explain personality growth
Socio-Cultural Context	3	Study family, peers, schooling & media influence	Real-life examples	Short assignment	Apply socio-cultural perspectives

(Educational Psychology)

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-1 Research Methods in Educational	5	To introduce research methods and their role in studying	Charts, Notes, Research paper samples	Viva, Class discussions	Students will understand methods of studying learner

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Psychology		classroom learning			differences and classroom dynamics
Motivation: Achievement Processes	8	To analyze intrinsic and extrinsic motivation, mastery motivation, self-efficacy, and goal setting	Motivational videos, Case examples	MCQs, Projects	Students will learn to apply motivational theories in classroom settings
Social Relationships (Parents, Teachers, Peers)	5	To explain the importance of parent-teacher-student relationship in learning	Role plays, Group discussion	Observation, Feedback	Students will recognize the role of relationships in shaping learning and behavior

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Students with Achievement Problems	7	To understand problems like procrastination, anxiety, low achievement, and alienation	Case studies, Counseling demonstrations	Case analysis, Assignments	Students will develop skills to identify and support students with achievement difficulties
MODULE-2					
Social Constructivist Approaches to Education	6	To understand scaffolding, peer learning, cooperative learning	Charts, Group tasks, PPT	Group activity assessment	Students will appreciate collaborative learning models
Nature of Classroom Communication	6	To analyze verbal, non-verbal, and unintended communication in classroom	Video demonstrations, Role-play	Class test, Activity	Students will learn to use communication for effective teaching
Students with	8	To identify and	Case studies,	Assignments,	Students will

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Special Education Needs		address needs of students with ADHD, learning disabilities, physical impairments	Worksheets, Counseling techniques	Viva	develop inclusive teaching approaches
MODULE-3					
Significance of Classroom Management	5	To highlight importance of classroom rules, structure, and environment	Charts, Real classroom examples	Quiz, Class discussion	Students will learn strategies for effective management
Preventing Management Problems	8	To discuss classroom arrangement, rules, routines, and interactions	Classroom mapping, Flowcharts	Observation, Activity	Students will acquire practical classroom management skills
Natural & Logical	4	To understand	Case studies	Written test	Students will be

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Consequences of Managing Classrooms		discipline methods and their application			able to apply logical discipline strategies
Conflict Resolution & Problem Solving	4	To develop conflict management skills	Role-play, Group discussion	Feedback, Viva	Students will gain problem-solving skills in educational settings
MODULE-4					
Forms of Thinking in Classroom	5	To explore critical, creative, and problem-solving thinking	Brainstorming, Charts	Quiz, Group activity	Students will differentiate between various forms of thinking
Instructional Strategies for Complex Thinking	7	To use teacher-directed, learner-centered, and cooperative strategies	PPTs, Group activities	Assignments, MCQs	Students will be able to implement strategies for higher-order

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
					learning
Planning Instruction	8	To design effective lesson plans and enhance student learning	Lesson plan formats, Demonstrations	Lesson plan submission, Viva	Students will learn systematic instructional planning

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Subject: Psychology

Semester:6th

Class: B.A 3rd Year

Name of the Faculty: Mrs. Nilofer Nasrin

Adolescent Psychology

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-1					
Concept of Adolescence	3	To introduce definitions, principles, and developmental tasks	Whiteboard, Charts	Short answer test	Students will understand adolescence as a developmental stage
Puberty	4	To analyze physical and psychological changes during puberty	Diagrams, Videos	Quiz, Viva	Students will learn challenges of puberty and coping mechanisms
Adolescent Health	2	To highlight importance of	Posters, Health charts	Group discussion	Students will adopt healthy practices

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		nutrition and exercise			
Adolescent Sexuality	3	To discuss sexual orientation, morality, and sex education	Case studies, Counseling guidelines	Assignments	Students will understand importance of safe and responsible behavior
MODULE-2 **Cognitive Development**	5	To study Piaget's theory, adolescent reasoning, decision making, meta-cognition	PPTs, Examples	Class test	Students will gain insights into adolescent thinking patterns
Moral Development	3	To explore Kohlberg and Gilligan's moral development theories	Charts, Case studies	MCQs, Assignments	Students will apply moral theories to adolescent situations
Social Development	4	To examine family,	Group	Feedback,	Students will

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		parenting styles, conflicts, and sibling rivalry	discussions, Case studies	Class participation	understand influence of family and social environment
Peers and Institutions	3	To study peer pressure, friendships, and school influence	Role-play, Activities	Observation, Short test	Students will analyze peer and institutional impact on adolescents
MODULE-3 **Emotional Development**	4	To develop understanding of emotional intelligence, self-management, and relationships	Case studies, EI Scales	Assignment, Viva	Students will develop EI skills
Development of Personal Identity	4	To understand Erikson's and	Charts, PPT	Quiz, Discussion	Students will learn factors shaping

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
		Marcia's identity theories			adolescent identity
Self-concept and Self-esteem	3	To study self-concept, self-esteem, and sex-role identity	Worksheets, Group work	Class test	Students will evaluate factors influencing identity
MODULE 4 **Risk Behaviours**	3	To discuss STDs, HIV/AIDS, teenage pregnancy	Case studies, Charts	Assignments	Students will gain awareness of health risks
Addiction to Technology	2	To highlight excessive use of technology and its effects	Videos, Debates	Group discussion	Students will understand technology-related risks
Obesity and Eating Disorders	2	To study eating problems and health concerns	Posters, Health charts	Quiz	Students will learn coping strategies

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Depression and Suicide	3	To understand causes, prevention, and intervention	Case reports, Counseling techniques	Viva, Short notes	Students will develop awareness of psychological risk factors

Health Psychology

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
MODULE-1					
Definition of Health Psychology	2	To introduce scope and importance	Notes, PPTs	Quiz	Students will define and explain health psychology
Mind–Body Relationship	2	To explain psychophysiological links	Case studies, Diagrams	MCQs	Students will analyze mind–body interaction
Bio–Psychological	2	To describe holistic	Charts	Class test	Students will

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Model of Health		health models			apply the biopsychosocial perspective
Life Styles & Disease Patterns	2	To study how lifestyle affects health	Real-life examples	Activity, Assignments	Students will evaluate lifestyle risk factors
Illness & Personality	2	To analyze role of personality in illness	Case studies	Viva	Students will link personality traits to health
MODULE-2 **Characteristics of Health Behaviour**	2	To identify features of healthy/unhealthy behaviour	Charts, PPT	Quiz	Students will recognize healthy lifestyle behaviours
Barriers to Health Behaviour	2	To discuss challenges to health behaviour	Group discussion	Assignment	Students will identify obstacles to adopting healthy

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
					behaviours
Theories of Health Behaviour	4	To explain protective motivation theory & reasoned action theory	PPTs, Flowcharts	Test	Students will apply theories to health promotion
Pain: Meaning, Types & Assessment	4	To describe pain management techniques	Case studies, Videos	Class test	Students will evaluate psychological aspects of pain
MODULE-3					
Cardiovascular Diseases, Cancer, AIDS	3	To explain causes and psychosocial impact of chronic illnesses	Charts, PPTs	Quiz	Students will identify effects of chronic illnesses
Living with Chronic Illness	2	To study coping with long-term illness	Case studies	Assignments	Students will understand adjustments in chronic

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
					conditions
Emotional Response to Chronic Illness	2	To analyze stress, depression, and coping mechanisms	Videos, Role-plays	Observation, Viva	Students will learn psychosocial reactions to illness
Psychological Interventions	2	To introduce counseling & CBT for chronic patients	Counseling demonstration	Case study analysis	Students will apply interventions
Rehabilitation	2	To discuss patient rehabilitation approaches	Posters, Role-play	Group activity	Students will understand rehabilitation strategies
MODULE-4					
Health Compromising Behaviours	3	To study unhealthy behaviours and risk factors	Charts, Case studies	Quiz, Assignments	Students will learn consequences of compromising

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
(Smoking, Alcoholism, Substance Abuse)					behaviours
Health Enhancing Behaviour (Diet, Yoga, Exercise)	3	To promote healthy practices	Videos, Demonstrations	Practical activity	Students will adopt health-enhancing behaviours
Patient–Provider Communication	2	To explain effective communication in healthcare	Role-play, Demonstrations	Viva, Observation	Students will improve clinical communication skills
Improving Adherence to Treatment	2	To study ways to increase compliance	Case studies	Assignments	Students will analyze adherence issues
Role & Burnout of Caregivers	2	To explain responsibilities & stress of caregivers	Case reports, Group discussion	Class test	Students will appreciate role of caregivers

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Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes

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Lesson Plan – Psychological Assessment (DSE 601 P, Semester VI, 1 Credit)

Components	Details
Course Title	Psychological Assessment
Semester	VI
Credits	1
Objectives	• To enable students to learn and practice psychological tests related to Adolescent and Health Psychology.• To develop skills in test administration, scoring, and interpretation.• To enhance understanding of psychological constructs and their practical applications.
Content / Tests to be Conducted (Any Eight)	1. Life Events Scale / Student Stress Scale 2. State and Trait Anxiety Test 3. Loneliness Scale 4. Adolescent Questionnaire 5. K N P I 6. Student Problem Inventory 7. Well-being Scale 8. Health Locus of Control 9. Type A and Type B Personality Test
Teaching Aids / Resources	Test booklets, Questionnaires, Answer sheets, Scoring keys, Case records, Statistical tables, and Guidelines for interpretation.

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Components	Details
Teaching–Learning Methods	• Demonstration of test administration • Hands-on practice by students • Group discussion on interpretation of results • Case-based learning and report preparation
Assessment / Evaluation	• Practical Examination (25 Marks) • Criteria: Accuracy in test administration, scoring, interpretation, record maintenance, and ethical considerations.
Expected Learning Outcomes	• Students will acquire competency in administering psychological tests. • Students will be able to score and interpret results effectively. • Students will understand the relevance of assessment in adolescent and health psychology. • Students will appreciate ethical issues in psychological testing.

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Lesson Plan – Research Psychology & Project Work (DSE 601 PR, Semester VI, 4 Credits)

Components	Details
Course Title	Research Psychology & Project Work
Semester	VI
Credits	4
Objectives	• To orient students towards research methodology in psychology. • To provide training in identifying research problems, reviewing literature, sampling methods, and data collection. • To develop skills in conducting experiments and preparing research reports as per APA guidelines. • To enhance critical thinking and analytical skills through hands-on research.
Content / Activities	• Orientation on Research Report writing as per APA 6th Edition. • Introduction to research process: problem identification, literature review, sampling, and data collection. • Identification and selection of psychological tests or experiments for

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Components	Details
	conducting research on a sample. • Execution of research project in consultation with teacher. • Analysis, interpretation, and report writing. • Presentation of findings.
Teaching Aids / Resources	Research journals, Reference books, APA Manual (6th Edition), SPSS/Excel for data analysis, Case studies, Psychological tests and scales.
Teaching–Learning Methods	• Teacher-student interactive sessions. • Workshops on research writing and methodology. • Group discussions and presentations. • Fieldwork and practical data collection. • One-to-one mentoring for project supervision.
Assessment / Evaluation	• Continuous assessment through progress reports and discussions. • Final Project Report submission.

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Components	Details
	• Viva voce on project findings. • Total Marks: **100**
Expected Learning Outcomes	• Students will acquire skills in research methodology and psychological testing. • Students will be able to design and conduct psychological research independently. • Students will demonstrate competence in data analysis and interpretation. • Students will learn to write research reports adhering to APA standards. • Students will develop critical and scientific thinking in psychology.

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Faculty of Sciences

Department of Physics

Lesson Plan 2024-2025

Subject: Physics

Paper - I :: Mechanics (Semester – I)

Class: B.SC (M.P.C) 1st Year

Name of the Faculty : Mr. Syed Sajjad Hussain

DEPARTMENT OF PHYSICS

Head, Dept. of Physics
ANWARUL-ULOOM COLLEGE
Mallepally, Hyderabad

DEPARTMENT OF PHYSICS

TEACHING LESSON PLAN FOR SUBJECT: Physics
B.Sc (Physics) - I Year
SEMESTER I
Paper - I :: Mechanics

Lesson Plan Framework (Unit Wise)

TOPIC / UNIT	No. of Classes (From-------To)	OBJECTIVES / TOPICS FOR STUDENT PREPARATION	Teaching Aid Used	ASSESSMENTS	LEARNING OUTCOMES
UNIT - I **Vector Analysis** Scalar and vector fields, gradient of a scalar field and its physical significance. Divergence and curl of a vector field and related problems. Vector integration, line, surface and volume integrals. Stokes, Gauss and Greens theorems-simple applications.	10 Classes 28/06/2024 To 15/07/2024	Vector analysis is a branch of mathematics that deals with operations on vector fields, which are functions that assign a vector to each point in space. It is a powerful tool used in many fields, including physics, engineering, and fluid dynamics.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand scalar and vector fields, including gradient, divergence, and curl, with their physical significance. Apply vector integration and fundamental theorems (Stokes, Gauss, Green) to solve related problems.

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UNIT - II **Mechanics of Particles** Laws of motion, motion of variable mass system, motion of a rocket, multi-stage rocket, conservation of energy and momentum. Collisions in two and three dimensions, concept of impact parameter, scattering cross-section **Mechanical of rigid bodies** Definition of Rigid body, rotational kinematic relations, equation of motion for a rotating body, angular momentum and inertial tensor. Euler's equation, precession of a top, Gyroscope.	15 Classes 20/07/2024 To 15/08/2024	The objectives for these topics are to apply fundamental laws of motion to particles and rigid bodies, analyze systems with varying mass, understand the mechanics of rockets and multi-stage rockets, apply principles of energy and momentum conservation in different scenarios including collisions, calculate parameters of collisions, and analyze rotational motion, angular momentum, moment of inertia, and complex rotational phenomena like gyroscopes	Lectures methods Seminars PPT Textbook, Pdf Format etc. Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc. MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand laws of motion for particles, including variable mass systems, rockets, and multi-stage rockets. Apply conservation of energy and momentum to collisions, scattering, and calculate impact parameters and cross-sections. Understand the dynamics of rigid bodies, including rotational kinematics, equations of motion, angular momentum, and moment of inertia. Study Euler's equations, gyroscopic motion, and precession of a top.

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UNIT - III **Central Forces** Central forces - definition and examples, conservative nature of central forces, conservative force as a negative gradient of potential energy, equation of motion under a central force, gravitational potential and gravitational field, motion under inverse square law, derivation of Kepler's laws, Coriolis force and its expressions. **Special theory of relativity** Galilean relativity, absolute frames, Michelson-Morley experiment, Postulates of special theory of relativity. Lorentz transformation, time dilation, length contraction, addition of velocities, mass-energy relation. Concept of four vector formalism.	12 Classes 20/08/2024 To 07/09/2024	Understand the nature and characteristics of central forces and their conservative behavior. Analyze motion under central forces, including gravitational potential, inverse square law, and derive Kepler's laws. Explain and derive the Coriolis force in rotating frames and its effects on moving bodies. Understand the foundations of special relativity, including the failure of absolute frames and results of the Michelson–Morley experiment, Lorentz transformations, and key consequences like time dilation, length contraction, velocity addition, and mass–energy equivalence. Develop familiarity with four-vector formalism for a unified treatment of space-time and relativistic dynamics.	Lectures methods Seminars PPT Textbook, Pdf Format etc. Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc. MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand central forces, their conservative nature, and motion under such forces, including gravitational potential and inverse-square law. Apply these concepts to derive Kepler's laws and analyze effects like the Coriolis force. Understand the limitations of Galilean relativity, absolute frames, and the Michelson–Morley experiment. Apply the postulates of special relativity to study Lorentz transformations, time dilation, length contraction, velocity addition, mass–energy equivalence, and four-vector formalism.

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UNIT - IV **Oscillations(12)** Simple harmonic oscillator, and solution of the differential equation– Physical characteristics of SHM, torsion pendulum measurements of rigidity modulus, compound pendulum, measurement of g, combination of two mutually perpendicular simple harmonic vibrations of same frequency and different frequencies, Lissajous figures. Damped harmonic oscillator, solution of the differential equation of damped oscillator. Energy considerations, logarithmic decrement, relaxation time, quality factor, differential equation of forced oscillator and its solution, amplitude resonance, velocity resonance.	12 Classes 10/09/2024 To 30/10/2024	Learn the theory and solutions of simple, damped, and forced harmonic oscillators, including their physical characteristics, energy relations, and resonance phenomena. Understand practical applications like torsion and compound pendulums, measurement of ggg, and analysis of Lissajous figures from superposition of vibrations.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand simple, damped, and forced harmonic oscillations, their differential equations, and physical characteristics. Apply concepts to measure rigidity modulus, gravitational acceleration, analyze superposed vibrations, Lissajous figures, resonance phenomena, energy considerations, and quality factors.

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Faculty of Sciences

Department of Physics

Lesson Plan 2024-2025

Subject: Physics

Paper - II :: Thermal Physics (Semester – II)

Class: B.SC (M.P.C) 1st Year

Name of the Faculty : Mr. Syed Sajjad Hussain

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DEPARTMENT OF PHYSICS

TEACHING LESSON PLAN FOR SUBJECT: Physics
B.Sc (Physics) - I Year
SEMESTER II
Paper - II :: Thermal Physics

Lesson Plan Framework (Unit Wise)

TOPIC / UNIT	No. of Classes (From------ To)	OBJECTIVES / TOPICS FOR STUDENT PREPARATION	Teaching Aid Used	ASSESSMENTS	LEARNING OUTCOMES
UNIT - I **Kinetic theory of gases:** Introduction - Deduction of Maxwell's law of distribution of molecular speeds, Transport Phenomena - Viscosity of gases - thermal conductivity - diffusion of gases.	12 Classes 15/12/2024 To 04/01/2025	Understand the derivation of Maxwell's distribution of molecular speeds and its significance. Study transport phenomena in gases, including viscosity, thermal conductivity, and diffusion, with their theoretical explanations.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand the kinetic theory of gases and Maxwell's distribution of molecular speeds. Apply the theory to explain and calculate transport phenomena such as viscosity, thermal conductivity, and diffusion in gases.

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Thermodynamics: Basics of thermodynamics-Kelvin's and Claussius statements - Thermodynamic scale of temperature - Entropy, physical significance - Change in entropy in reversible and irreversible processes - Entropy and disorder - Entropy of universe - Temperature Entropy (T-S) diagram - Change of entropy of a perfect gas-change of entropy when ice changes into steam.		Grasp the fundamental laws of thermodynamics, entropy concepts, and their physical significance. Analyze entropy changes in reversible/irreversible processes, phase changes, and represent them using temperature-entropy (T–S) diagrams.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand the fundamental laws of thermodynamics, entropy concepts, and their physical significance. Analyze entropy changes in reversible and irreversible processes, phase transitions, and represent them using temperature-entropy (T–S) diagrams.

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UNIT - II **Thermodynamic potentials and Maxwell's equations:** Thermodynamic potentials - Derivation of Maxwell's thermodynamic relations - Clausius-Clayperon's equation - Derivation for ratio of specific heats - Derivation for difference of two specific heats for perfect gas. Joule Kelvin effect - expression for joule Kelvin coefficient for perfect and Vanderwaal's gas. **Low temperature Physics:** Joule Kelvin effect - liquefaction of gas using porous plug experiment. Joule expansion - Distinction between adiabatic and Joule Thomson expansion - Expression for Joule Thomson cooling - Liquefaction of helium, Kapitza's method - Adiabatic demagnetization - Production of low temperatures - Principle of refrigeration, vapour compression type.	15 Classes 08/01/2025 To 02/02/2025	Learn thermodynamic potentials and derive Maxwell's relations and Clausius–Clapeyron equation. Understand specific heat relations, Joule–Kelvin effect, and calculate the Joule–Kelvin coefficient for ideal and Van der Waals gases. Understand Joule–Kelvin effect, Joule expansion, and their roles in gas liquefaction and cooling. Study methods for achieving very low temperatures, including helium liquefaction, adiabatic demagnetization, and vapour-compression refrigeration.	Lectures methods Seminars PPT Textbook, Pdf Format etc. Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc. MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand thermodynamic potentials and derive Maxwell's relations and the Clausius–Clapeyron equation. Apply concepts to calculate specific heat relations, Joule–Kelvin effect, and determine the Joule–Kelvin coefficient for ideal and Van der Waals gases. Understand the Joule–Kelvin effect, Joule expansion, and their roles in gas liquefaction and cooling. Study methods for achieving very low temperatures, including helium liquefaction, adiabatic demagnetization, and vapor-compression refrigeration principles.

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UNIT - III **Quantum theory of radiation:** Black body-Ferry's black body - distribution of energy in the spectrum of Black body - Weins's law, Rayleigh-Jean's law - Quantum theory of radiation - Planck's law - deduction of Wein's distribution law, Rayleigh-Jeans law, Stefan's law from Planck's law. Measurement of radiation using pyrometers - Disappearing filament optical pyrometer - experimental determination - Angstrom pyroheliometer - determination of solar constant, effective temperature of sun.	12 Classes 05/02/2025 To 28/02/2025	Learn blackbody radiation, classical laws, and Planck's quantum theory with its deductions of Wien's, Rayleigh–Jeans, and Stefan's laws. Understand experimental methods for measuring radiation, including pyrometers and determination of solar constant and Sun's effective temperature.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand blackbody radiation, classical laws (Wien's, Rayleigh–Jeans, Stefan's) and their explanation through Planck's quantum theory. Learn experimental techniques to measure radiation, including pyrometers and determination of the solar constant and Sun's effective temperature.

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UNIT – IV **Statistical Mechanics:** Introduction, postulates of statistical mechanics. Phase space, concept of ensembles and some known ensembles, classical and quantum statistics and their differences, concept of probability, Maswell-Boltsmann's distribution law - Molecular energies in an ideal gas - Maxwell-boltzmann's velocity distribution law, Bose-Einstein Distribution law, Fermi-Dirac Distribution law, comparison of three distribution law, Application of B-E distribution to Photons-planks radiation formula, Application of Fermi-Dirac statistics to white dwarfs and Neutron stars.	15 Classes 02/03/2025 To 30/03/2025	Understand the postulates of statistical mechanics, phase space, ensembles, and probability concepts. Study Maxwell–Boltzmann, Bose–Einstein, and Fermi–Dirac distributions, compare them, and explore applications to blackbody radiation, white dwarfs, and neutron stars.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand the postulates of statistical mechanics, phase space, and the concept of ensembles. Study classical and quantum statistics, including Maxwell–Boltzmann, Bose–Einstein, and Fermi–Dirac distributions, and their applications to blackbody radiation, white dwarfs, and neutron stars.

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Faculty of Sciences

Department of Physics

Lesson Plan 2024-2025

Subject: Physics

Paper - III :: Electromagnetic Theory (Semester – III)

Class: B.SC (M.P.C) 2nd Year

Name of the Faculty : Mr. Syed Sajjad Hussain

DEPARTMENT OF PHYSICS

Head, Department of Physics
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Hyderabad-500 001.

DEPARTMENT OF PHYSICS

TEACHING LESSON PLAN FOR SUBJECT: Physics

B.Sc (Physics) - II Year

SEMESTER III

Paper - III :: Electromagnetic Theory

Lesson Plan Framework (Unit Wise)

TOPIC /UNIT	No. of Classes (From------To)	OBJECTIVES / TOPICS FOR STUDENT PREPARATION	Teaching Aid Used	ASSESSMENTS	LEARNING OUTCOMES
UNIT -I **Electrostatics** Electric Field: Concept of electric field lines and electric flux, Gauss's law (Integral and differential forms), applicationto linear, plane and spherical charge distributions. Conservative nature of electric field 'E', Irrotational field. Electric potential:- Concept of electric potential, relation between electric potential and electric field, potential energy of a system of charges. Energy density in an electric field. Calculation of potential from electric field for a spherical charge distribution.	15 Classes 05/06/2024 To 08/07/2024	Understand electric field, flux, and Gauss's law with applications to various charge distributions. Learn electric potential, its relation to field and energy, and calculate potential and energy density for spherical charge systems.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand the concepts of electric field, electric flux, and Gauss's law, and apply them to various charge distributions. Learn electric potential calculations for spherical charge systems.

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UNIT-II **Magnetostatics** Electic Field:- Concept of magnetic field 'B' and magnetic flux, Biot-Savart's law, B due to a straight current carrying conductor, Force on a point charge in a magnetic field. Properties of B, curl and divergence of B, solenoidal field, Integral form of Ampere's law, Applications of Ampere's law: field due to straight, circular and solenoidal currents. Energy stored in magnetic field. Magnetic energy in terms of current and inductance. Magnetic force between two current carrying conductors. Magnetic field intensity, Ballistic Galvanometer:- Torque on a current loop in a uniform magnetic field, working principle of B.G., current and charge sensitivity, electromagnetic damping, critical damping resistance.	15 Classes 12/07/2024 To 10/08/2024	Learn magnetic field concepts, Biot–Savart's law, Ampere's law, and their applications to current configurations. Understand magnetic forces, energy storage, inductance, and the working, sensitivity, and damping of a ballistic galvanometer.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand the concepts of magnetic field, flux, Biot–Savart law, and Ampere's law, with applications to various current configurations. Study magnetic forces, energy storage, inductance, and the principles, sensitivity, and damping of a ballistic galvanometer.

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UNIT-III **Electromagnetic Induction and Electromagentic waves** Faraday's laws of induction (differential and integral form), Lenz's law, self and mutual Induction, Continuity equation, modification of Ampere's law, displacement current, Maxwell equations. Maxwell's equations in vacuum and dielectric medium, boundary conditions, plane wave equation: transverse nature of EM waves, velocity of light in vacuum and in medium. Poynting's theorem.	15 Classes 15/08/2024 To 12/09/2024	Understand Faraday's and Lenz's laws, self and mutual induction, and the concept of displacement current. Study Maxwell's equations, electromagnetic wave propagation, boundary conditions, transverse nature, and energy flow via Poynting's theorem.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Be able to solve a variety of problems related to Faraday's law of induction and Maxwell's equations. Student is expected to explain term displacement current as well.

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UNIT-IV **Varying and alternating currents** Growth and decay of currents in LR, CR and LCR circuits - Critical damping, Alternating current, relation between current and voltage in pure R, C and L-vector diagrams - Power in ac circuits. LCR series and parallel resonant circuit - Q-factor, AC & DC motors-single phase, three phase (basics only). **Network Theorems :** Passive elements, Power sources, Active elements, Network models: T and π Transformations, Superposition theorem, Thevenin's theorem, Norton's theorem. Reciprocity theorem and Maximum power transfer theorem (Simple problems).	15 Classes 15/09/2024 To 18/10/2024	Study the growth and decay of currents in LR, CR, and LCR circuits, including critical damping. Understand AC circuits, vector diagrams, power, resonance, Q-factor, and basic principles of single-phase and three-phase AC & DC motors. Learn network elements and modeling techniques, including T–π transformations. Apply fundamental network theorems—Superposition, Thevenin, Norton, Reciprocity, and Maximum Power Transfer—to analyze electrical circuits.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Study in depth the transient current response of CR, LC, CR and LCR circuits, which is essential in deisgning as well as understanding the working of electronic circuits. Understand the relevance of displacement current in the context of electromagnetic wave propagation.

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Faculty of Sciences

Department of Physics

Lesson Plan 2024-2025

Subject: Physics

Paper - IV :: Waves and Optics (Semester – IV)

Class: B.SC (M.P.C) 2nd Year

Name of the Faculty : Mr. Syed Sajjad Hussain

Head Department of Physics
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DEPARTMENT OF PHYSICS

DEPARTMENT OF PHYSICS
TEACHING LESSON PLAN FOR SUBJECT: Physics
B.Sc (Physics) - II Year
SEMESTER IV
Paper - IV :: Waves and Optics

Lesson Plan Framework (Unit Wise)

TOPIC /UNIT	No. of Classes (From------To)	OBJECTIVES / TOPICS FOR STUDENT PREPARATION	Teaching Aid Used	ASSESSMENTS	LEARNING OUTCOMES
UNIT-1 **Waves:** Fundamentals of Waves - Transverse wave propagation along a stretched string, general solution of wave equation and its significance, modes of vibration of stretched string clamped at ends, overtones, energy transport, transverse impedance. Logitudinal vibrations in bars- wave equation and its general solution. Special cases (i) bar fixed at both ends ii) bar fixed at the mid point iii) bar free at both ends iv) bar fixed at one end. Transverse vibrations in a bar- wave equation and its general solution. Boundary conditions, clamped free bar, free-free bar, bar supported at both ends, Tuning fork.	15 Classes 10/12/2024 To 05/01/2025	Understand wave propagation in strings and bars, including transverse and longitudinal vibrations. Study wave equations, boundary conditions, normal modes, overtones, energy transport, and applications such as tuning forks.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Explain certain phenomena related to waves and Wave Equations and their special cases.

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UNIT-II **Interference:** Principle of superposition - coherence- temporal coherence and spatial coherence - conditions for Interference of light. Interference by division of wave front: Fresnel's biprism - determination of wave length of light. Determination of thickness of a transparent material using Biprism - change of phase on reflection - Lloyd's mirror experiment. Interference by division of amplitude: Oblique incidence of a plane wave on a thin film due to reflected and transmitted light (Cosine law) - Colours of thin films - Non-reflecting films - interference by a plane parallel film illuminated by a point source - Interference by a film with two non-parallel reflecting surfaces (Wedge shaped film) - Determination of diameter of wire-Newton's rings in reflected light with and without contact between lens and glass plate, Newton's rings in transmitted light (Haidinger Fringes) - Determination of wave length of monochromatic light - Michelson Interferometer - types of fringes - Determination of wavelength of monochromatic light, Difference in wavelength of sodium D_1,D_2 lines and thickness of a thin tranparent plate.	15 Classes 10/01/2025 To 28/01/2025	Understand the principles of interference, coherence, and conditions for producing interference of light. Study interference by division of wavefront and amplitude, including Fresnel's biprism, Newton's rings, thin films, and Michelson interferometer, with applications in wavelength and thickness measurements.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Use the principles of wave motion and superposition to explain the physics of polarisation, interference and diffraction. Calculate wavelength difference and fringe width from the interference pattern.

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UNIT - III **Diffrraction:** Introduction - Distinction between Fresnel and Fraunhofer diffraction, Fraunhofer diffraction:- Diffraction due to single slit and circular aperture - Limit of resolution - Fraunhofer diffraction due to double slit - Fraunhofer diffraction pattern with N slits (diffraction grating). Resolving Power of grating - Determination of wave length of light in normal and oblique incidence methods using diffraction grating. Fresnel diffraction-Fresnel's half period zones - area of half period zones - zone plate - Comparison of zone plate with convex lens - Phase reversal zone plate - diffraction at a straight edge - difference between interference and diffraction.	12 Classes 05/02/2025 To 26/02/2025	Understand Fresnel and Fraunhofer diffraction, including single, double, and multiple slit patterns, and diffraction gratings. Study resolving power, wavelength determination, Fresnel zones, zone plates, and distinctions between interference and diffraction phenomena.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand the properties of light like reflection, refraction, interference, diffraction etc. Explain diffraction pattern and calculate dispersive power of the grating.

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UNIT - IV **Polarization** Polarized light : Methods of Polarization, Polarization by reflection, refraction, Double refraction, selective absorption, scattering of light - Brewester's law - Malus law - Nicol prism polarizer and analyzer - Refraction of plane wave incident on negative and positive crystals (Huygen's explanation) - Quarter wave plate, Half wave plate - Babinet's compensator - Optical activity, analysis of light by Laurent's half shade ploarimeter.	15 Classes 02/03/2025 To 02/04/2025	Understand methods and principles of light polarization, including reflection, refraction, double refraction, and selective absorption. Study optical devices like Nicol prism, wave plates, Babinet's compensator, and polarimeters, and their applications in analyzing polarized light.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Analyze different types of polarized light and their analyzing parameters.

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Faculty of Sciences

Department of Physics

Lesson Plan 2024-2025

Subject: Physics

Paper - V :: Modern Physics (Semester – V)

Class: B.SC (M.P.C) 3rd Year

Name of the Faculty : Mr. Syed Sajjad Hussain

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DEPARTMENT OF PHYSICS

TEACHING LESSON PLAN FOR SUBJECT: Physics

B.Sc Physics III Year

Modern Physics

SEMESTER V

(Elective - I)

Lesson Plan Framework (Unit Wise)

TOPIC/UNIT	No. of Classes (From------To)	OBJECTIVES / TOPICS FOR STUDENT PREPARATION	Teaching Aid Used	ASSESSMENTS	LEARNING OUTCOMES
Unit :I **SPECTROSCOPY:** Atomic Spectra: Introduction - Drawbacks of Bohr's atomic model - Sommerfeld's elliptical orbits - relativistic correction (No derivation). Stern and Gerlach experiment, Vector atom model and quantum numbers associated with it. L-S and j-j coupling schemes. Spectral terms, selection rules, intensity rules-spectra of alkali atoms, doublet fine structure, Zeeman Effect, Paschen-Back Effect and Stark Effect (basic idea). **Molecular Spectroscopy:** Types of molecular spectra, pure rotational energies and spectrum of diatomic molecule. Determination of inter nuclear distance. Vibrational energies and spectrum of diatomic molecule. Raman effect, classical theory of Raman effect. Experimental arrangement for Raman effect and its applications.	11 Classes 18-06-2024 To 30/06/2024	Understand atomic spectra, limitations of Bohr's model, and Sommerfeld's elliptical orbits with relativistic corrections. Study quantum numbers, coupling schemes, spectral terms, selection rules, and effects like Zeeman, Paschen–Back, and Stark on atomic spectra.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Compare and contrast Modern Physics with Classical Physics Describe the atomic spectra of one and two valance electron atoms. Explain rotational, vibrational, electronic and Raman spectra of molecules.

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Unit :II **Quantum Mechanics:** Inadequacy of classical physics: Spectral radiation - Planck's law (only discussion). Photoelectric effect - Einstien's photoelectric equation. Compton's effect - experimental verification.	10 Classes 02/07/2024 To 15/07/2024	Understand the limitations of classical physics in explaining phenomena like blackbody radiation, photoelectric effect, and Compton scattering. Study Planck's law, Einstein's photoelectric equation, and experimental verification of Compton effect.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand historical basis of quantum mechanics
Matter waves & Uncertainty principle: de Broglie's hypothesis - wavelength of matter waves, properties of matter waves. Phase and group velocities. Davison and Germer experiment. Double slit experiment. Standing de Broglie waves of electron in Bohr orbits. Heisenberg's uncertainty principle for position and momentum (x and p_x), Energy and time (E and t). Gamma ray microscope. Diffraction by a single slit. Position of electron in a Bohr orbit. Complementary principle of Bohr.		Understand de Broglie matter waves, their properties, phase and group velocities, and experimental evidence from Davisson–Germer and double-slit experiments. Study Heisenberg's uncertainty principle, its applications, and Bohr's complementary principle in atomic orbits.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand the theory of quantum measurements, wave packets and uncertainty principle.

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Schrodinger Wave Equation Schrodinger time independent and time dependent wave equations. Wave funciton properties - Significance. Basic postulates of quantum mechanics. Operators, eigen functions and eigen values, expectation values.		Understand the time-dependent and time-independent Schrödinger equations and properties of wave functions. Study the fundamental postulates of quantum mechanics, operators, eigenvalues, eigenfunctions, and expectation values.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand the central concepts of quantum mechanics and Schrodinger wave equations.

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Unit :III **Nuclear Physics:** Basic properties of nucleus - size, charge, mass, spin, magnetic dipole moment and electric quadrupole moment. Binding energy of nucleus, deuteron binding energy, p-p, n-n, and n-p scattering (concepts), Range of alpha particles, Geiger - Nuttal law. Gammow's theory of alpha decay. Geiger - Nuttal law from Gammow's theory. Beta spectrum - neutrino hypothesis, **Particle Detectors:** GM counter, proportional counter, scintillation counter.	12 Classes 18/07/2024 To 30/07/2024	Understand nuclear properties, binding energy, and basic nuclear interactions, including alpha and beta decay. Study alpha particle range, Gammow's theory, neutrino hypothesis, and particle detection methods like GM, proportional, and scintillation counters.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand the basic properties of Nuclear Physics To understand the concept of Nuclear structure & Alpha and Beta Decays.

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Unit :IV **Solid State Physics & Crystolography:** **Crystal Structure :** Crystalline nature of matter. Cystal lattice, Unit Cell, Elements of symmetry, Crystal systems, bravais Lattices. Miller indices. Simple crystal structures (S.C., BCC, FCC, DsCl, NaCl, diamond and Zinc Blende) X-ray Diffraction: Diffraction ofr X-rays by crystals, Bragg's law, Experimental techniques - Laue's method and powder method. **Bonding in Crystals:** Types of bonding in crystals - characteristics of crystals with different bondings. Lattice energy of ionic crystals - determination of Madelung constant for NaCl crystal. Calculation of Born Coefficeint and repulsive exponent. Born-Haber cycle.	10 Classes 01/08/2024 To 20/08/2024	Understand crystal structures, lattice types, symmetry elements, and Miller indices, with examples like SC, BCC, FCC, NaCl, and diamond. Study X-ray diffraction (Bragg's law, Laue and powder methods) and bonding in crystals, including lattice energy, Madelung constant, Born–Haber cycle, and bonding characteristics.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Explain the concept of Solid State Physics and Analyze the Crystal Structures. To understand the Types of bonding and characteristics of the crystals.

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Faculty of Sciences

Department of Physics

Lesson Plan 2024-2025

Subject: Physics

Paper - V B :: Computational Physics (Semester – V)

(Elective – II)

Class: B.SC (M.P.C) 3rd Year

Name of the Faculty : Mr. Syed Sajjad Hussain

DEPARTMENT OF PHYSICS

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DEPARTMENT OF PHYSICS

TEACHING LESSON PLAN FOR SUBJECT: Physics

B. Sc (Physics) - III Year

SEMESTER V

Paper - V :: B Computational Physics

(Elective - II)

Lesson Plan Framework (Unit Wise)

TOPIC/UNIT	No. of Classes (From-----To)	OBJECTIVES / TOPICS FOR STUDENT PREPARATION	Teaching Aid Used	ASSESS MENTS	LEARNING OUTCOMES
UNIT – I **Programming in C :** Flow charts, Algorithms, Integer and floating point arithmetic, Precision, Variable types, Arithmetic statements, Input and ouput statements, Control statements, Executable and non- executabel statements, Arrays, Repetitive and logical structures, Subroutines and functions, Operation with files, Operating systems, Creation of executable programs.	10 Classes 22/06/2024 To 05/07/2024	Learn programming fundamentals in C, including algorithms, flowcharts, data types, arithmetic, and control structures. Understand arrays, functions, file operations, and program execution, with practical skills for creating executable programs.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conductin g Internal Exam, Assignme nts etc.	The course provides an opportunities to the students to learn about the fundaments of computer applications in solving the problems in different branches of Physics and Mathematics.

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UNIT-II **Numerical Methods of Analysis:** Solution of algebric and transcendental equations; Iterative, bisection and Newton-Raphson methods. Solution of simultaneous linear equations: Matrix inversion method, Interpolation: Newton and Lagrange formulas, Numerical differentiation, Numerical Integration, Trapezoidal, Simpson and Gaussian quadrature methods, Least-square curve fitting, Straight line and polynomial fits.	10 Classes 08/07/2024 To 20/08/2024	Learn numerical techniques for solving algebraic, transcendental, and simultaneous linear equations using iterative, bisection, and Newton–Raphson methods. Study interpolation, numerical differentiation and integration, and least-squares curve fitting for straight lines and polynomials.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Employ and develop concepts and methods for the large scale simulations of the dynamic behaviour of complex systems, as well as the corresponding data analysis techniques.

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UNIT- III **Numerical solution of ordinary differential equation:** Euler and Runge-Kutta methods. Simulation Generation of uniformly distributed random integers, Statistical tests of randomness, Monte-Carlo evaluation of integrals and error analysis, Non-uniform probability distributions, Importance of sampling, Rejection method.	18 Classes 22/08/2024 To 10/09/2024	Learn numerical methods for solving ordinary differential equations using Euler and Runge–Kutta techniques. Understand simulation, random number generation, Monte Carlo integration, statistical tests, and sampling methods for uniform and non-uniform distributions.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conductin g Internal Exam, Assignme nts etc.	Read the current literature and appreciate the various approaches to alrge-scale simulation of scientific and engineering applications

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UNIT- IV Metropolis algorithm, Molecular diffusion and Brownian motion as random walk problems and their MonteCarlo simulation. Finite element and finite difference methods, boundary value and initial value problems, density functional methods.	10 Classes 12/09/2024 To 21/09/2024	Study Monte Carlo simulations, including the Metropolis algorithm, molecular diffusion, and Brownian motion as random walks. Learn numerical techniques like finite element and finite difference methods, and explore boundary/initial value problems and density functional methods.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	They would learn basics of C-programming and FORTRAN-90/95 programming languages. Its applications which can useful in their future carrier in the field of research and technology.

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Faculty of Sciences

Department of Physics

Lesson Plan 2024-2025

Subject: Physics

Paper - VI A :: Electronics (Semester – VI)

(Elective – I)

Class: B.SC (M.P.C) 3rd Year

Name of the Faculty : Mr. Syed Sajjad Hussain

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DEPARTMENT OF PHYSICS

TEACHING LESSON PLAN FOR SUBJECT: Physics

C. Sc (Physics) - III Year

SEMESTER VI

Paper - VI :: A. Electronics

(Elective - I)

Lesson Plan Framework (Unit Wise)

TOPIC /UNIT	No. of Classes (From------ To)	OBJECTIVES / TOPICS FOR STUDENT PREPARATION	Teaching Aid Used	ASSESSMENTS	LEARNING OUTCOMES
UNIT – I **Band theory of P-N junction**: Energy band in solids (band theory), valence band, conduction band and forbidden energy gap in solids, insulators, semiconductors and pure or intrinsic semiconductors and impure or extrinsic semi-conductors. N-type semi-conductors, P-type semi-conductors, Fermi level, continuity equation. **Diodes:** P-N junction diode, Half-wave, full-wave and bridge rectifier, Zener diode & its characteristics, Zener diode as voltage regulator.	12 Classes 12/12/2024 To 24/12/2024	Understand energy bands in solids, types of semiconductors, Fermi level, and charge carrier behavior in P–N junctions. Study diode types, rectification (half-wave, full-wave, bridge), and Zener diode operation as a voltage regulator.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	This course helps the students to gain basic ideas of the construction and working of electronic devices and circuits and to understand the fundamentals of Band Theory and Diodes.

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UNIT – II **Bipolar Junction Transistor (BJT)** - p-n-p and n-p-n transistors, current components in transistors, CB, CE and CC configurations - transistor as an amplifier - RC coupled amplifier - Frequency response (Qualitative analysis). **Feedback concept & Oscillators:** Feedback, General theory of feedback - Concepts of oscillators, Barkhausen's criteria, Phase shift oscillator-Expression for frequency of oscillation.	10 Classes 27/12/2024 To 09/01/2025	Understand BJT operation, current components, and configurations (CB, CE, CC), with applications in amplification and RC-coupled amplifiers. Learn feedback principles, oscillator concepts, Barkhausen's criteria, and design of phase-shift oscillators with frequency determination.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	The depth in understanding of electronics i.e, Transistors and Oscillators. So, that opens scope for the students to work in private and public sector enterprises. The digital electronics has wide applications in computing, process control, signal processing, communication systems, digital instruments etc.

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UNIT – III **Special devices-** Construction and Characteristics: Photo diode - Shockley diode - Solar cell, Opto-couplers - Field Effect Transistor (FET) - FET as an Amplifier - Uni Junction Transistor (UJIT), UJIT as a relaxation oscillator - Silicon controlled rectifier (SCR) - as a switch.	10 Classes 11/01/2025 To 23/01/2025	Study the construction, characteristics, and applications of special devices like photodiodes, solar cells, optocouplers, FETs, UJTs, and SCRs. Understand FET amplification, UJT relaxation oscillators, and SCR operation as a switch.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	The course is of much practical purpose for the students to learn basics of digital electronics.

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UNIT – IV **Digital Electronics:** Binary number system, convertion of binary to decimal and vice-versa, Binary addition and subtaction (1's and 2's complement methods). Hexadecimal number system. Conversion from binary to hexadecimal and vice-versa, Decimal to hexadecimal and vice-versa. **Logic gates:** OR, AND, NOT gates, truth tables, realization of these gates using discrete components,NAND, NOR as universal gates, Exclusive - OR gate (EX-OR). Demorgan's Laws - Verification.	10 Classes 03/02/2025 To 18/03/2025	Understand number systems (binary, decimal, hexadecimal) and conversions, including binary arithmetic using 1's and 2's complement. Study logic gates, their truth tables, realization with components, universal gates (NAND, NOR), EX-OR, and De Morgan's laws.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	This course is helpful to understand Digital Electronics along with Logic Gates which is wide scope for the students seeking job opportunities in government, corporate and private sectors. It is also helpful for the students to find opportunities in government, corporate and private sectors. It is also helpful for the students to find opportunities research & development (R & D).

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Faculty of Sciences

Department of Physics

Lesson Plan 2024-2025

Subject: Physics

Paper - VI B :: Applied Optics (Semester – VI)

(Elective – II)

Class: B.SC (M.P.C) 3rd Year

Name of the Faculty : Mr. Syed Sajjad Hussain

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DEPARTMENT OF PHYSICS

TEACHING LESSON PLAN FOR SUBJECT: Physics

D. Sc (Physics) - III Year

SEMESTER VI

Paper - VI :: B. APPLIED OPTICS

(DSE-Elective - II)

Lesson Plan Framework (Unit Wise)

TOPIC /UNIT	No. of Classes (From------ To)	OBJECTIVES / TOPICS FOR STUDENT PREPARATION	Teaching Aid Used	ASSESSMENTS	LEARNING OUTCOMES
UNIT – I Principles of lasers: Emission and absorptionof Radiation - Einstein Relations - Pumping Mechanisms - Optical feedback - Laser Rate equations for two, three and four level lasers, Pumping threshold conditions, - Properties of Laser beams, Classification of laser systems - Gas , Liquid and Solid Lasers; He-Ne, and Argon lasers, their energy level schemes - Ruby laser and YAG laser, Ga-As laser, and their applications in various fields.	10 Classes 21/12/2024 To 05/01/2025	Understand the principles of lasers, including and optical feedback. Study rate equations, threshold conditions, laser properties, types (gas, liquid, solid), specific lasers like He–Ne, Ga–As, and their applications.	Lectures methods Seminars PPT Textbook, Pdf Format etc. .	MCQ VIVA Conducting Internal Exam, Assignments etc.	The student should have had a knowledge on the different types of lasers.

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UNIT- II **Holography:**Basic Principles of Holography-Recording of amplitude and phase- The recording medium- Reconstruction of original wave front-Image fromation by wave front reconstruction-Gaber Hologram-Limitations of Gaber Hologram-Off axis Hologram-Fourier transform Holograms-Volume Holograms, Applications of Holograms.	10 Classes 10/01/2025 To 28/01/2025	Understand the basic principles of holography, including recording and reconstruction of amplitude and phase information. Study different hologram types (Gabor, off-axis, Fourier, volume) and their applications in imaging and information storage.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	After completing this course, students would be able to understand the concept of Diffraction, Fourier transforming properties of lens, Electro and magneto optic effects.

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UNIT -III Fourier and Non-Linear Optics:Fourier optics-Thin lens as phase transformation - Thickness function-Various types of lenses- Fourier transforming properties of lenses - Object placed in front of the lens-Object placed behind the lens. Non-Linear Optics: Harmonic generation-Second harmonic generation-Phase matching condition-Optical mixing-Parametric generation of light - Self focusing of light.	10 Classes 05/02/2025 To 22/02/2025	Understand Fourier optics, including lens as a phase transformer and its Fourier transforming properties with object placement. Study nonlinear optics concepts such as harmonic generation, phase matching, optical mixing, parametric light generation, and self-focusing of light.	Lectures methods Seminars PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	The student should have understood the basics of nonlinear optics.

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UNIT –IV Optical Fibers: Fiber types and their structures. Ray optics representation, acceptance angle and numerical aperture. Step index and graded index fibers, single mode and multimode fibers. Fiber Materials for glass fibers and plastic fibers. Signal attenuation in optical fibers: Absorption, scattering and bending losses in fibers, core and cladding losses. Material dispersion, wave guide dispersion, intermodes distortion and pulse broadening.	10 Classes 02/03/2025 To 20/03/2025	Understand optical fiber types, structures, and light propagation using ray optics, including acceptance angle and numerical aperture. Study fiber materials, signal attenuation mechanisms, dispersion effects, and pulse broadening in single-mode and multimode fibers.	Lectures methods Seminars PPT Textbook, Pdf Format etc.PPT Textbook, Pdf Format etc.	MCQ VIVA Conducting Internal Exam, Assignments etc.	Understand the overview of fiber optic sensors and its unique applications. Understand optical fiber principle, operations, and its applications.

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Teaching Lesson Plan

DEPARTMENT OF COMPUTER SCIENCE

Academic Year 2024-2025

Subject: **Programming in C** Semester: **I**

Class: **B.Sc. (M.E.CS)** Name of the Faculty: **Mr. Mohd. Ubaid Siddiqui**

Topic/Unit/Chapter	No. of Classes	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit : 1 **Computer Fundamentals:** Introduction of Computers, Classification of Computers, Anatomy of a Computer, Memory Hierarchy, Introduction to OS, Operational Overview of a CPU. **Program Fundamentals:** Generation and Classification of Programming Languages, Compiling, Interpreting, Loading, Linking of a Program, Developing Program, Software Development. **Algorithms:** Definitions, Different Ways of Stating Algorithms (Step-form, Pseudo-code, Flowchart), Strategy for Designing Algorithms, StructuredProgramming Concept. Basics of C: Overview of C, Developing Programs in C, Parts of Simple C Program, Structure of a C Program, Comments, Program Statements, C Tokens, Keywords, Identifiers, Data Types, Variables, Constants, Operators and Expressions, Expression Evaluation–precedence and associativity, Type Conversions.	**13 (10-07-24 To 12-08-24)**	✓ Fundamentals of Computer System, generations of computer. ✓ Input, output devices. ✓ Memory and its types. ✓ Algorithm Basics and Design.	Black Board, Smart Board, PPT's, LCD Projector. Simulations	PPT Presentation Oral Questions Group Discussion	❖ To Gain knowledge of fundamentals of Computers & C programming.
Unit : 2 **Input-Output:** Non-formatted and Formatted Input and Output Functions, Escape Sequences, **Control Statements:** Selection Statements – if, if-else, nested if, nested if- else, comma operator, conditional operator, switch; Iterative Statements– while, for, do-while; Special Control Statements – goto, break, continue, return and exit. **Arrays and Strings:** One-dimensional Arrays, Character Arrays, Functions from ctype.h, string.h, Multi-dimensional Arrays.	**12 (13-08-24 To 18-09-24)**	✓ Input-Output functions. ✓ Various Control Statements. ✓ Arrays and strings.	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ To design Decision making statements And To apply the programming loop statements
Unit : 3 **Functions:** Concept of Function, Using Functions, Call-by-Value Vs Call-by- reference, Passing Arrays to Functions, Score of Variables, Storage Classes, Inline Functions, and Recursion. **Pointers:** Introduction, Address of Operator (&), Pointer, Uses of Pointers, Arrays and Pointers, Pointers and Strings, Pointers to Pointers, Array of Pointers, Pointer to Array, Dynamic Memory Allocation.	**12 (19-09-24 To 14-10-24)**	✓ Working with Functions. ✓ Pointers. ✓ Dynamic Memory Allocation.	Black Board, Smart Board, PPT's, LCD Projector.	Recalling Previous Knowledge Group Discussion PPT Presentation	❖ To Learn about Initializing Arrays and Function calling, Declaring return and Argument types, storage class.
Unit : 4 **User-defined Data Types:** Declaring a Structure (Union) and its members, Initialization Structure (Union), Accessing members of a Structure (Union), Array of Structures (Union), Structures vs Unions, enumeration types. **Files:** Introduction, Using Files in C, Working with Text Files, Working with Binary Files, Files of Records, Random Access to Files of Records, Other File Management Functions. **Graphics under C:** Introduction, Initializing graphics drivers, Graphics library and important graphics functions, initgraph() function, Colors in graphics mode, draw shapes such as circle, line, rectangle and ellipse using C graphics. Simple programs.	**13 (15-10-24 To 05-11-24)**	✓ Working with user-defined data type. ✓ Working with structures, Pointers and Data files. ✓ Graphics under C (Simple Programs)	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ To familiarity with working with structures, Pointer and functions and Data files. ❖ To gain knowledge about graphics under C.

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Teaching Lesson Plan

DEPARTMENT OF COMPUTER SCIENCE

Academic Year 2024-2025

Subject : **Programming in C++ (CS-II)** Semester : **II**

Class : **B.Sc. (M.E.Cs.)** Name of the Faculty : **Mr. Mohd. Ubaid Siddiqui**

Topic/Unit/Chapter	No. of Classes	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit : 1 **Introduction to C++:** Applications, Example Programs, Tokens, Data Types, Operators, Expressions, Control Structures, Arrays, Strings, Pointers, Searching and Sorting Arrays. **Functions:** Introduction, Prototype, Passing Data by Value, Reference Variables, Using Reference Variables as Parameters, Inline Functions, Default Arguments, Overloading Functions, Passing Arrays to Functions. **Object Oriented Programming:** Procedural and Object-Oriented Programming, Terminology, Benefits, OOP Languages, and OOP Applications.	**13 Classes (12-12-24 To (7-01-25)**	✓ Fundamentals of C++ Programming language such as tokens, keywords, identifiers, constants, variables and data types in C++ ✓ Concept of OOP and its applications.	Black Board, Smart Board, PPT's, LCD Projector.	PPT Presentation Oral Questions Group Discussion	❖ To understand the basic concepts of C++ Programming language. ❖ To deal with various functions operations. ❖ To gain knowledge of Object Oriented Programming and its applications.
Unit : 2 **Classes:** Introduction, Defining an Instance of a Class, Why Have Private Members? Separating Class Specification from Implementation, Inline Member Functions, Constructors, Passing Arguments to Constructors, Destructor, Overloading Constructors, Private Member Functions, Arrays of Objects, Instance and Static Members, Friend of a Class, Member-wise Assignment, Copy Constructors, Operator Overloading, Object Conversion, Aggregation.	**12 Classes (8-01-25) To 06-02-25)**	✓ The concept of classes and constructors. ✓ The concepts of function & operator overloading	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ To understand the concept of class definition, creation and implementation. ❖ To know about the concept of constructors and destructor.
Unit : 3 **Inheritance:** Introduction, Protected Members and Class Access, Base Class Access Specification, Constructor and Destructor in Base and Derived Classes, Redefining Base Class Functions, Class Hierarchies, Polymorphism and Virtual Member Functions, Abstract Base Classes and Pure Virtual Functions, Multiple Inheritance. **C++ Streams:** Stream Classes, Unformatted I/O Operations, Formatted I/O Operations.	**12 Classes (07-02-25) To (28-02-25)**	✓ Inheritance and its various types. ✓ The concept of polymorphism. ✓ C++ stream classes various operations.	Black Board, Smart Board, PPT's, LCD Projector.	Recalling Previous Knowledge Group Discussion PPT Presentation	❖ To learn Programming features of C++ such as arrays and functions, inheritance and interface. ❖ C++ Stream classes operations.

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Unit : 4 **Exceptions:** Introduction, Throwing an Exception, Handling an Exception, Object-Oriented Exception handling with Classes, Multiple Exceptions, Extracting Data from the Exception Class, Re-throwing an Exception, Handling the bad alloc Exception. Templates: Function Templates–Introduction, Function Templates with Multiple Type, Overloading with Function Templates, Class Templates – Introduction, Defining Objects of the Class Template, Class Template and Inheritance, Introduction to the STL. **Graphics Programming in C++:** Introduction, Initializing graphics drivers, Graphics library and important graphics functions, initgraph() function, Colors in graphics mode, draw shapes such as circle, line, rectangle and ellipse using C++ graphics. Simple programs in graphics mode.	**13 Classes (02-03-25) To (22-03-25)**	✓ Exception handling mechanism. ✓ Templates, class templates. ✓ The concept of STL. ✓ Graphics programming in C++ (Simple Programs)	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ To learn Exception handling mechanism. ❖ To know about Templates, class templates. ❖ To gain the knowledge about STL. ❖ To learn about Graphics programming in C++ with the help of Simple Programs.

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TEACHING LESSON PLAN

DEPARTMENT OF COMPUTER SCIENCE

Academic Year 2024-2025

Subject: **Computer Science - III** Semester: **III**
Class: **B.Sc. (M.E.Cs.)** Name of the Faculty: **Mr. Mohd. Ubaid Siddiqui**

Topic/Unit/Chapter	No. of Classes	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit : 1 **Data Structure:** Data & Data items, Data types, Concept of Data Structure, Classification of Data Structures, Operations on data structures, Array, Types of Arrays, Multidimensional arrays, Representation of Array in Computer memory, Operations on arrays, array sorting, array searching, dynamic array, variable length array.	**13 (10-07-24 To 12-08-24)**	✓ Fundamental concepts of linear and non-linear data structures, Classification of data structures and operations on data structures.	Black Board, Smart Board, PPT's, LCD Projector.	PPT Presentation Oral Questions Group Discussion	❖ Appreciate and understand the working of a linear and non-linear data structures and their features
Unit : 2 **Linked Lists:** Linked list concepts, Advantages, Types of linked lists, Comparison between Array & Linked list, Creating Simple Linked list, Performing Operations (Traversing, Inserting, Deleting) on linked list, Creating Doubly linked list, Advantages, Operations on double linked list, Creating Circular linked list, Operations on a Circular linked list.	**12 (13-08-24 To 18-09-24)**	✓ Learn linked list, its types and features of single, double, priority and circular linked list.	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ Analyze a given problem and develop simple programs to solve the problem using Linked Lists.
Unit : 3 **Stacks and Queues:** Representation of stacks, Conversion of Arithmetic expressions, Use of Stack in evaluating arithmetic expression, Representation of Queue, Linked list implementation of Queue, Application of Queue, Representation of Circular Queues, D-Queues, Priority queue. **Sorting:** Bubble, Selection and Insertion sort, quick sort, tree sort. **Searching:** Linear search & Binary search.	**12 (19-09-24 To 14-10-24)**	✓ Learn to understand basic concepts of Stacks and Queues data structures and their representation in memory. ✓ To understand and learn Searching and Sorting within the databases.	Black Board, Smart Board, PPT's, LCD Projector.	Recalling Previous Knowledge Group Discussion PPT Presentation	❖ To perform various operations on stacks and queues. ❖ To learn various sorting and searching techniques.
Unit : 4 **Binary Trees:** Tree Terminology, Binary Tree, Complete Binary Tree, Binary Tree Traversal Techniques(Preorder, Inorder, Postorder), Array based Representation of Binary Trees, Linked based representation of Binary tree, Complete Binary Tree. **Graphs:** Introduction, Representation of graphs, traversing a Graph, Breadth First Search & Traversal, Depth First Search & Traversal. **Introduction to Modern Data Structures:** Introduction, Concept, List data structure, representation of list, Concept of Tuple data structure and its representation in memory, Concept of Dictionary, Advantages of Dictionary data structure.	**13 (15-10-24 To 05-11-24)**	✓ To understand and learn Binary trees & Graphs concept. ✓ To understand the concept of modern data structures and its representation in memory.	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ Using binary tree and graph traverse in the database and develop solutions for various expressions. ❖ Implement sorting techniques to organize and search database. Working with data files in projects.

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DEPARTMENT OF COMPUTER SCIENCE
Academic Year 2024-2025

Subject : **Database Management System (DBMS) (CS- IV)** Semester : **IV**
Class : **B.Sc. (M.E.Cs.)** Name of the Faculty : **Mr. Mohd. Ubaid Siddiqui**

Topic/Unit/Chapter	No. of Classes	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able to
Unit : 1 **Introduction to databases :** Introduction,Traditional File-Based Systems, Database Approach, Roles in the Database Environment, Advantages and Disadvantages of DBMSs, The Three-Level ANSI-SPARC Architecture, Database Languages, Data Models, Functions of a DBMS, Components of a DBMS. **Relational Model:** Introduction, Terminology, Integrity Constraints, Views. The Relational Algebra: Unary Operations, Set Operations, Join Operations, Division Operation, Aggregation and Grouping Operations.	**13 Classes (12-12-24) To (7-01-25)**	✓ Various database approaches. ✓ Understanding the advantages and disadvantages of DBMSs. ✓ Relational Model.	Black Board, Smart Board, PPT's, LCD Projector.	PPT Presentation Oral Questions Group Discussion	❖ Recognize the difference between dbms and file oriented systems. ❖ Identify the various roles and users of dbms. ❖ Recognize the advantages and disadvantages of dbms. ❖ See inside the various architectures of the dbms. ❖ Use structured query language. ❖ Understand importance of data model.
Unit : 2 **SQL:** Introduction, Data Manipulation–Simple Queries, Sorting Results, Using the SQL Aggregate Functions, Grouping Results, Sub-queries, ANY and ALL, Multi-table Queries, SQL Data Types, Domain Constraints, Entity Integrity, Referential Integrity, General Constraints, Data Definition– Creating a Database, Creating a Table, Changing a Table Definition, Removing a Table, Creating an Index, Removing an Index. **Views:** Creating a View, Removing a View, View Resolution, Restrictions on Views, View Updatability, WITH CHECK OPTION, Advantages and Disadvantages of Views, View Materialization. **Transactions, Discretionary Access Control** – Granting Privileges to Other Users, Revoking Privileges from Users.	**12 Classes (8-01-25) To 06-02-25)**	✓ SQL ✓ Creating and formatting tables using various commands. ✓ Views ✓ Transaction, Discretionary Access control.	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ Use dbms commands update, delete, insert commands. ❖ Use aggregate functions ❖ Use order by group by functions. ❖ Use inner join, outer join equi joins full joins etc. ❖ Handle the various data types. ❖ Apply the constraints on the filed and on the table. ❖ Use ddl command to create objects such as user, table etc. ❖ Use transaction commands commit and rollback. ❖ Use the view and materialization views for various purpose.
Unit : 3 **Advanced SQL:** The SQL Programming Language–Declarations, Assignments, Control Statements, Exceptions, Cursors, Subprograms, Stored Procedures, Functions, and Packages, Triggers, Recursion. **Entity–Relationship Modeling:** Entity Types, Relationship Types, Attributes, Keys, Strong and Weak Entity Types, Attributes on Relationships, Problems with ER Models. **Enhanced Entity–Relationship Modeling:** Specialization/Generalization, Aggregation, Composition, **Functional–Dependencies:** Anomalies, Partial Functional Dependency, Transitive Functional Dependency, Multi Valued Dependency. **Normalization:** The Purpose of Normalization, How Normalization Supports Database Design, Data Redundancy and Update Anomalies, Functional Dependencies in brief, 1NF, 2NF, 3NF, BCNF.	**12 Classes (07-02-25) To (28-02-25)**	✓ Advanced SQL. ✓ Entity – Relationship Modeling. ✓ Enhanced Entity-Relationship Modeling. ✓ Normalization and various normal forms.	Black Board, Smart Board, PPT's, LCD Projector.	Recalling Previous Knowledge Group Discussion PPT Presentation	❖ Create entity types, relationship types, attributes, keys, strong and weak entity types, attributes on relationships and able to create ER diagrams using specialization/generalization, aggregation, ❖ Recognize the anomalies, partial functional dependency, transitive functional dependency, multi-valued dependency, join dependency. ❖ Do Normalization on tables in 1 NF, 2 NF, 3 NF, BCNF.
Unit : 4 **Database Design:** The Information System, The Systems Development Life Cycle, The Database Life Cycle, Database Design Strategies, Centralized Vs Decentralized design. **Transaction Management:** Transaction Support–Properties of Transactions, Database Architecture, Concurrency Control, Serializability, Locking Methods, Deadlock, Time Stamping Methods, Database Recovery. **Security:** Database Security–Threats, Computer-Based Controls – Authorization, Access Controls, Views, Backup and Recovery, Integrity, Encryption, RAID. **Distributed Database System:** Concept, Types of Distributed Database, Homogeneous Database, Heterogeneous Database, Distributed Data Storage, Replication, Fragmentation, Client and Server, Applications of Distributed database.	**13 Classes (02-03-25) To (22-03-25)**	✓ Database Design ✓ Transaction Management ✓ Security ✓ Distributed Database System.	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ Understand properties of transactions, database architecture, ❖ Recognize the need for concurrency control, serializability and recoverability, locking methods. ❖ Use deadlock, multi-version timestamp ordering, optimistic techniques. ❖ Understand the granularity of data items. ❖ Recognize the need for recovery, recovery facilities, Recovery techniques. ❖ Recognize the security–threats, authorization, access controls, views.

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DEPARTMENT OF COMPUTER SCIENCE

Academic Year 2024-2025

Subject : **Programming in Java (CS-V)** Semester : **V**
Class : **B.Sc. (M.E.Cs.)** Name of the Faculty : **Mr. Mohd. Ubaid Siddiqui**

Topic/Unit/Chapter	No. of Classes	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit : 1 **Fundamentals of Object Oriented Programming:** Object oriented Paradigm-Basic concepts of Object Oriented Programming-Benefits of OOP- Applications of OOP. Java Features-How Java differs from C and C++-Java and Internet-Java and World Wide Web –Web Browsers-Hardware and Software Requirements-Java Environment **Overview of Java Language:** Simple Java Program-Java Program Structure-Java Tokens-Java Statements-Implementing a Java Program-Java Virtual Machine-Command Line Arguments.	13 (10-07-24 To 12-08-24)	✓ Fundamentals of Object Oriented Programming ✓ Overview of Java Language. ✓ Java Features	Black Board, Smart Board, PPT's, LCD Projector.	PPT Presentation Oral Questions Group Discussion	❖ To learn fundamentals of object oriented programming. concept. ❖ To understand features of Java and its applications. ❖ To run java programs and understand JVM, Features
Unit : 2 **Constants and Variables:** Constants,-Variables-Data Types-Declaration Of Variables-Giving Values To Variables-Symbolic Constants-Type Casting. **Operators and expressions:** Arithmetic operators –Relational operators-Logical operators-Assignment operators-increment and decrement operators-conditional operators **Decision Making and Branching:** Decision Making with if statement-simple if statement-if-else-statement-Nesting if else Statement - the Else if Ladder-The switch Statement - The ?: operator. **Looping:** The while statement- The do statement- The for Statement - Jumps in Loops.	12 (13-08-24 To 18-09-24)	✓ Constants and variable concept. ✓ Various operators. ✓ Decision making and looping statements.	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ To differentiate between Data Types, Type Conversion, Casting, Conditional Statements, Loops, Branching Mechanism. ❖ To learn various types of operators.
Unit : 3 **Classes, Objects and Methods:** Defining a class- fields Declaration-Methods Declaration-Creating Objects-Accessing class members-Constructors-Methods overloading-Static Members-Nesting Of Methods – Inheritance-Overriding Methods-Final Variables and Methods-Final Classes-Abstract Methods and Classes-Visibility Control. **Arrays, Strings and Vectors:** One dimensional Array-creating an array-Two dimensional Array – Strings, Vectors, Wrappers classes, Enumerated Type.	12 (19-09-24 To 14-10-24)	✓ Classes, objects and methods concept. ✓ Inheritance ✓ Handling Arrays, strings and vectors.	Black Board, Smart Board, PPT's, LCD Projector.	Recalling Previous Knowledge Group Discussion PPT Presentation	❖ To understand Classes, Objects, Class Declaration, Creating Objects, Method Declaration and Invocation, Method Overloading. ❖ To use Parameterized Constructors, Constructor Overloading, Cleaning-up unused Objects, Class Variables. ❖ To learn arrays, strings and vectors concepts.
Unit : 4 **Interfaces:** Multiple Inheritance : Defining Interfaces – Extending Interfaces – Implementing Interfaces.**Packages:** Java API Packages – Using system Packages – Naming Conventions - Creating Packages.**Multithreaded Programming:** Creating Threads – Extending the Thread Class - Stopping and Blocking a Thread – Life Cycle of a Thread. **Managing Errors and Exceptions:** Types of Errors – Exceptions – Syntax of Exception Handling Code – Multiple Catch Statements – Using Finally Statement. **Applet Programming:** How Applets differ from Applications – Preparing to write Applets – Building Applet Code – Applet Life Cycle – Creating an executable Applet – Designing a Web Page – Applet Tag – Adding Applet to HTML file – Running the Applet.	13 (15-10-24 To 05-11-24)	✓ Interfaces ✓ Packages ✓ Multithread programming ✓ Managing errors and exceptions ✓ Applet programming	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ To understand interfaces and packages. ❖ To learn about multithreaded programming. ❖ To manage errors and exceptions. ❖ To understand applet programming.

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TEACHING LESSON PLAN

DEPARTMENT OF COMPUTER SCIENCE

Academic Year 2024-2025

Subject : **Web Technology (CS-VI)** Semester : **VI**

Class : **B.Sc. (M.E.Cs.)** Name of the Faculty : **Mr. Mohd. Ubaid Siddiqui**

Topic/Unit/Chapter	No. of Classes	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit : 1 **Structuring Documents for the Web:** Introducing HTML and XHTML, Basic Text Formatting, Presentational Elements, Phrase Elements, Heading styles, Editing Text, Core Elements and Attributes, Attribute Groups. **Links and Navigation:** Basic Links, Creating Links with the <a> Element, Advanced E-mail Links. **Images, Audio, and Video:** Adding Images Using the <img> Element, Using Images as Links Image Maps, Choosing the Right Image Format, Adding Flash, Video and Audio to your web pages. **List and Tables:** Creating list, Types of List Hyperlinking list elements, Introducing Tables, Grouping Section of a Table, Nested Tables, Accessing Tables, adding images, hyperlinking table elements.	13 Classes (12-12-24 To 7-01-25)	✓ Structuring Documents for the Web. ✓ Links and Navigation tags. ✓ Images, Audio, and Video tags ✓ List and Table tags.	Black Board, Smart Board, PPT's, LCD Projector.	PPT Presentation Oral Questions Group Discussion	❖ To do Basic Text Formatting and Editing Text, Core Elements and Attributes, Attribute Groups. ❖ To create Links with the <a> Element, Advanced E- mail Links. And navigation. ❖ To Add Images Using the <img> Element, Use Images as Links Image , Add Flash, Video and Audio to your web
Unit : 2 **Frames:** Introducing Frameset, <frame> Element, Creating Links Between Frames, Setting a Default Target Frame Using <base> Element, Nested Framesets, Inline or Floating Frames with <iframe>. **Forms:** Introducing Forms, Form Controls, Sending Form Data to the Server. **Cascading Style Sheets:** Introducing CSS, Where you can Add CSS Rules. **CSS Properties:** Controlling Text, Text Formatting, Text Pseudo Classes, Selectors, Lengths, Introducing the Box Model. More Cascading Style Sheets: Links, Lists, Tables, Outlines, The :focus and :activate Pseudo classes Generated Content, Miscellaneous Properties, Additional Rules. **Positioning and Layout with CSS Page Layout:** Understating the Site's Audience, Page Size, Designing Pages, Coding your Design.	12 Classes (8-01-25 To 06-02-25)	✓ Frames creation in html. ✓ Forms creation in html. ✓ Cascading Style Sheets and it's types. ✓ Positioning and layout with CSS page layout.	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ To create Frames using Frameset, <frame> Element, Creating Links Between Frames, , Nested Framesets,<iframe>. ❖ To create Forms and Form Controls, also Sending Form Data to the Server ❖ To create various CSS and Rules, Properties and also Positioning and Layout with CSS.
Unit : 3 **Developing for Mobile Devices:** Design Issues: Typography, Navigation, Tables, Forms. **Learning JavaScript:** How to Add Script to Your Pages, the Document Object Model, Variables, Operators, Functions, Control Statements, Looping, Events, Built- In Objects, **Working with JavaScript:** Practical Tips for Writing Scripts, Form Validation, Form Enhancements, Java Script Libraries. Putting Your site on the web: Meta tags, Testing your site, Talking the Leap to Live, Telling the World about your site, Understanding your visitors.	12 Classes (07-02-25 To 28-02-25)	✓ Web Technologies used to Develop application for Mobile Devices. ✓ JavaScript code and uses. ✓ Working with JavaScript.	Black Board, Smart Board, PPT's, LCD Projector.	Recalling Previous Knowledge Group Discussion PPT Presentation	❖ To understand the web application for Mobile Devices such as Design Issues: Typography, Navigation, Tables, Forms. ❖ To create and use JavaScript feature for web development.
Unit : 4 **Introducing PHP:** What is PHP? Why use PHP? Evolution of PHP, Installing PHP, Other ways to run PHP, Creating your first script. PHP Language Basics – Using variables, Understanding Data Types, Operators and Expressions, Constants. Decisions and Loops – Making Decisions, Doing Repetitive Tasks with Looping, Mixing Decisions and Looping with HTML. **Protocols:** Introduction, TCP/IP, HTTP, S-HTTP, SMTP, Wireless Protocols, **IMAP.Latest Web Development Trends:** AI or Bots, JavaScript, Progressive Web App, Single Page Application, Mobile-Friendly Website, Motion UI, Block chain technology, Cyber Security, Web Development Frameworks.	13 Classes (02-03-25 To 22-03-25)	✓ PHP Language Basics ✓ Protocols used in web development ✓ Latest Web Development Trends.	Black Board, Smart Board, PPT's, LCD Projector.	Internal Assessment PPT Presentation Oral Questions Group Discussion	❖ To understand and use PHP script for web development. ❖ To understand the various protocols used in web development such us TCP/IP, HTTP, S-HTTP, SMTP, Wireless Protocols, IMAP. ❖ To understand Latest Web Development Trends such as AI or Bots, Progressive Web App, Mobile-Friendly Website, Motion UI, Web Development Frameworks. Etc.

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Dept. of B. Sc(CSE) - Teaching Lesson Plan 2024-2025

Subject: ECM
Class: BSC(CSE) I Year

Semester -I
Name of the Faculty: Mr. Syed Mehboob

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit – I:Unit – I: (12 Hours)Introduction to Electrical Circuits and Machines: Units – M K S units, S I units of electric charge, Potential, Power, Energy, Inductance and Capacitance, Flux, Flux density.	13 (10-07-24 To 12-08-24)	To understand basics of different units in Electrostatic and Electromagnetic system of Units.	Class room, PPT Projectors	1.What are Electrical Circuits and machines . 2.Explain the details of units what is MKS units and SI units of electric change.	1.Understanding on how to convert from Electrostatic and Electromagnetic system of Units.
Unit – II:D C Circuits: Ohm's law, Network elements, Kirchhoff's laws. Analysis of Circuits using loop current method and Mesh voltage method and node voltage method. Power in D C circuits.Series and Parallel combination of Resistance. Thevenin and Norton's theorems.	12 (13-08-24 To 18-09-24)	Basics of Electricals components, Active and Passive networks. Different laws and Theorem for Electrical circuits	Class room, PPT Projectors	1.Detail explanation od D C circuits. 2.Explain Ohm's law,Kirchoff's laws. Analysis of Circuits using loop	2..Understanding of different Elements and its functions. Solving simple and complex Electrical circuits using different laws and theorems
Unit – III:A C circuits: Sinusoidal sources, Phasor representation of Sinusoidal quantities, average and R M S value, form factor. Analysis of R L C circuits to Sinusoidal inputs, power factor active power, reactive power, Energy stored in Inductance and Capacitance.	12 (19-09-24 To 14-10-24)	To understand the basics of Sinusoidal waveform and its formation, consumption of power in Ideal R, L and C circuits.	Class room, PPT Projectors	1.what is Sinusoidal sources Phasor, quantities, average 2.Explain the Analysis of R L C circuits to Sinusoidal inputs, power factor active	Understanding the generation of Sinusoidal wave, finding its rms and average value of current. Deriving the eqn of power consumption in Ideal circuits.
Unit – IV: Transformers: Principles of Transformers , Transformer Voltage and Current. Transformer on non Load and Load, efficiency and regulation of Transformer, O C and S C test.D C Machines: Construction and working principle of D C Machine, Production of Torque in a D C servo motors, applications of D C Motors, losses and efficiency. Induction Motors: Production of rotating. Magnetic field, construction and Principle of Induction motor. Slip torque characteristics. Single phase induction motors, capacitance motor, shaded pole motor and applications.	13 (15-10-24 To 05-11-24)	Summarize basics of Transformer, construction, Principle of it. Different types and losses. Basics of DC Motor operations.	Class room, PPT Projectors	1.Define and Explain Principles of Transformers , Transformer Voltage and Current. Transformer on 2. What is applications of D C Motors, losses and efficiency.Induction Motors: Production of rotating	4. Understanding about different types of transformer and its losses. Derivation of eqns and problems on it. Understanding the basics of DC Motors.

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Dept. of B. Sc(CSE) ,Teaching Lesson Plan Format 2024-2025

Subject: PROGRAMMING IN C
Class: BSC(CSE)- I Year

Semester: I
Name of the Faculty: Mrs.Tasneem Fatima

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit:1 C Language Fundamentals: History, Character set of C, Keywords, Constants, variables, Data types, operators and expressions, Structure of C program, Language interpreter – compiling your first program, Running your program, The printf andscanf functions	13 (10-07-24 To 12-08-24)	1.The basic concepts and the applications of C programming.	Class room, PPT Projectors	1.Discuss History of C programming. 2.Structure of C programming 3.Use of printf and scanf functions 4.Learn to compile and Run C Program	1.To Gain knowledge of fundamentals of C programming
Unit:2 :Decision making: The if statement, the if else construct, Nested if statements, The else if construct, the switch statement, Boolean Variables, The conditional operator **Programming Loop:** The for statement, Relational operators, Nested for Loops, The while statement, the do Statement, The break Statement, The Continue Statement .	12 (13-08-24 To 18-09-24)	2.Decision making statements and programming loop statements	Class room, PPT Projectors	1. Explain if , if else, else if construct. 2.write about Nested If and switch statements 3.Discuss about Loop statement 4.Discuss about Conditional operator and Relational Operators	2.To design Decision making statements And To apply the programming loop statements
Unit:3 : Working with Arrays: Defining an Array, Initializing Arrays, Character Arrays, The constant Qualifier, Multi-dimensional Arrays. Working with Functions: Defining a function, Argument and 15 Local Variables, Returning Function Results, Function Calling, Declaring return Types and Argument types, Function and Arrays, Recursive Functions, Storage classes.	12 (19-09-24 To 14-10-24)	3.Working with Arrays and Functions 4. Declaring return Types and Argument types 5.Storage classes	Class room, PPT Projectors	1 Defining and Initializing an Arrays 2. Multi-dimensional Array 3. Declaring a function,Argument and local variables 4.Storage Classes	3.To Learn about Initializing Arrays and Function calling,Declaring return and Argument types,storage class
Unit:4: Working with Structures: Defining Structures, Functions and Structures, Initializing Structures, Array of Structure. Pointers: Defining a Pointer Variable, using Pointers in Expressions, Pointers and Functions. Working with Data files:Input and Output Operations in C: Character I / O formatted I / O – Input and Output operations with Files, Special functions for working with Files.	13(15-10-24 To 05-11-24)	6.Working with structures, Pointers and Data files	Class room, PPT Projectors	1.Defining structure, Functions and Structure 2. In detail about Pointer Variables 3.Detail about working with Data Files 4.What are special functions with files	5.Tofamiliarize working with structures, Pointer and functions and Data files.

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Dept. of B. Sc(CSE) , Teaching Lesson Plan Format 2024-2025

Subject: Intro to Information Technology
Class: BSC(CSE) I Year

Semester: I
Name of the Faculty: Ms. Arshiya Fatima

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit:1: The Digital Age: Overview of Computer and Communication – Data Information. Hardware, Software, Communication, Hardware system, Computer types, C P U, Main Memory, Secondary Storage, Input and Output Devices, Computer Applications.	13 (10-07-24 To 12-08-24)	Components of Computer and Communication	Class room, PPT Projectors	1. Describes the computer and its features 2. explains computers and data processing 3. Defines hardware and software concepts 4.Define the term motherboard, CPU, RAM, ROM,5. Defines input and output units	1. To Gain knowledge of fundamentals of computer and communication.
Unit:2 :Operating System: Introduction, Types of Operating Systems, Functions of Operating System, D O S commands, Windows XP / 2007, Components of a Window, Windows Explorer, Internet Explorer Control Panel, Windows Accessories, Introduction to UNIX Operating System.	12 (13-08-24 To 18-09-24)	Definition of Operating System, Types of Operating Systems, Functions of Operating System, DOS commands, features of Unix.	Class room, PPT Projectors	1. Explain types of operating system. 2.Explain internal and external DOS commands 3.Explain features of windows XP/2007 4.Define windows explorer , internet explorer , control panel, windows Accessories 5.Explain Unix operating system	2. To gain knowledge of operating system and intro Unix.
Unit:3 : Word Processing System: Features of M S - Word, Document creation, Editing and Printing, Macro, Mail Merge, different views of M S – Word document. M S – Excel: Spread Sheet, Cell, Cell addressing, formatting, Formulae, Different categories of Functions, Types of Charts and Graphs, Data Sorting, Data Filters, Graphics, Work Sheets of Database, Linking, Using Formula and Functions.	12 (19-09-24 To 14-10-24)	Features of M S - Word, Creation, Editing and Printing document. Macro, Mail Merge. Features of M S – Excel, formatting, Formulae, Charts and Graphs, Data Sorting, Data Filters Graphics, Using Formula and Functions.	Class room, PPT Projectors	1.Explain the features of Microsoft word processing system 2. Explain mail merge. 3.Explain features ms excel, 4. Explain different Formula and Functions. 5.explain different types of chart	3 .To familiarize with ms word and Excel features
Unit:4 : M S - PowerPoint: Features, Toolbars, creating a new slide, creating presentations, Deleting a slide, copying a slide, slide numbering, saving, slide show, custom animation, closing and printing presentations. **M S - Access:** Basic features of M S – Access – creating Data bases, creating Tables, Preparing Queries, Designing Forms, Generating Reports, Sorting tables, Displaying and Printing Databases records. **Communication Networks:** Types of Networks, Local Area Network, Metropolitan Are Network, Wide Area Network, www, Internet and Intranet.	13 (15-10-24 To 05-11-24)	Features M S - PowerPoint, creating presentations, custom animation, closing and printing presentations. features of M S - Access: creating Databases, Tables, Queries, Designing Forms, Generating Reports, Sorting tables, Displaying and Printing Databases records. Communication Network	Class room, PPT Projectors	1.Explain the step for the creation of presentations. 2. Explain the features of ms – Access. 3. Explain the steps to create database, Tables, Preparing Queries, Designing Forms, Generating Reports. 4.Explain communication network 6.Explain the Types of Networks.	4.To familiarize with features of PowerPoint presentation, ms access and network types.

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Teaching Lesson Plan Format 2024-2025

Subject: Physics

Class:BSC (CSE) I YEAR

Semester: II

Name of the Faculty: Mr.SYED MEHBOOB

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit:1 Bonding in Solids:Introduction- Types of Bonding, Ionic bond, Covalent bond, Metallic bond, Cohesive energy, calculation of Cohesive Energy. **Crystal Structure:Introduction**– Space Lattices, Basis, Unit cell, Lattice parameter, Crystal systems, Bravais Lattices, Structure and Packing fractions of Simple, Cubic, Body Centered Cubic, Face Centered Cubic Crystals, Structures of Diamond, ZnS, NaCl, CsCl.	13 Classes (12-12-24 To 7-01-25)	To understand basics of Solid State Physics. On this basis, discuss functioning of few semiconductor devices. Demonstrate it in practical experiments.	Class room, PPT Projectors	1. Explain in details about all bonds and cohesive energy. 2.What Is Cubic Crystals, Structures of Diamond, ZnS, NaCl. CsCl.	1.Develop basic understanding about Solid State Physics. On this basis, study of functioning of few semiconductor devices and provide hands-on experience.
Unit: 2: Principles of Quantum Mechanics: Waves and Particles, Planck's Quantum theory, de Broglie Hypothesis, Matter waves, Davison and Germer experiment, Schrodinger's Time independent Wave equation, Physical significance of the Wave function, Particle in one dimensional potential box.Classicalfree Electron theory, Mean free path, Relaxation time and drift velocity, Fermi – Dirac distribution (descriptive) Quantum free electron theory, sources of electrical resistance, Kronig – Penney model (qualitative treatment), origin of energy band formation in solids – concept of effective mass.	12 Classes (8-01-25 To 06-02-25)	Illustrate significance of Wave Particle Duality to realize the behavior of microscopic systems. Deduce Schrodinger 's equations and apply it toone quantum mechanical problem.	Class room, PPT Projectors	1.Explain significance of Wave Particle Duality to realize the behavior of microscopic systems 2.Describe the Quantum free electron theory	2. Illustrate significance of Wave Particle Duality to realize the behavior of microscopic systems. Developing Schrodinger equations and its extension to one quantum mechanical problem.
Unit:3. Semi – Conductors:Introduction, Intrinsic Semi-conductors and Carrier concentration, Equation for conductivity,Extrinsic Semi-conductors and carrier concentration, drift and diffusion, Einstein's equation, Halleffect. Super Conductivity:General properties, Meissner effect, Penetration depth, Type I and Type IISuper conductors, Flux quantization, Josephson effect, B C S theory. Applications of Super conductors.	12 Classes (07-02-25 To 28-02-25)	Summarize basics of superconductors and explore their tech. appli. in diverse fields. Describe few methods of synthesis of Nano-particles. Understand their physical properties. Estimate their applications	Class room, PPT Projectors	1.Describe the basics of superconductors and explore their technological applications in diverse fields 2. Describe few methods of synthesis of Nano-particles.	3.Impart basics of superconductors and study their technological appli diverse fields. Study of few methods of synthesis ofNano-particles, their physical properties and appreciate their applications in diverse fields.
Unit:4Laser: Introduction, characteristics of Lasers, Spontaneous and Stimulated Emission of Radiation, Einstein's coefficients, Ruby Laser, He – Ne Laser Semi-conductor Laser, Applications of Laser in Industry, Scientific and Medical fields.Fiber Optics: Introduction, principle of Optical fiber, Acceptance angle and Acceptance cone. Numerical aperture, Step – index fiber and transmission of signal in S I Fiber, Advantages of Optical fibers in Communication, Applications of Optical fibers in Medicine and Sensors.	13 Classes (02-03-25 To 22-03-25)	To know fundamental principles and working of laser. Explain working of semiconductor, ruby and He-Ne laser system. Extend it to understand the appl of laser in diverse fields . Understand basics of polarization and discover its few real-life appl.	Class room, PPT Projectors	1.Explain the fundamental principles and working of laser 2..Explain working of semiconductor, ruby and He-Ne laser system	4.Understanding of different types of advanced lasers and their applications

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Teaching Lesson

2024-2025

Subject: Electronic Devices& Circuits

Semester: II

Class: BSC(CSE)

Name of the Faculty: **Mr. Syed Mahaboob**

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit – I: C R O and Junction Diode Characteristics:Principles of C R T, Applications of C R T, Voltage, Current and Frequency measurements, Review of Semi-conductors. Physics – n and p – type Semi-conductors. Mass Action Law, continuity Equation, Hall effect, Open circuited p – n junction. The p n junction as a rectifier (forward bias and reverse bias), the current components in p – n diode, Law of Junction, Diode equation, Energy band diagram of p – n diode, Volt – Ampere characteristics of p – n diode, Temperature dependence of VI Characteristics, Transition and Diffusion capacitances, Breakdown mechanism in Semi-conductors Diodes, Zener diode characteristics, Characteristics of Tunnel diode, Varacter Diode.	13 Classes (12-12-24 To 25-01-25)	1.Outline the operation of PN junction diode and its characteristics. 2.Illustrate the operation of Cathode Ray Oscilloscope and Junction Diode Characteristics	Class room, PPT Projectors	1. Explain in detail neat diagram of CRO. 2. Which plates are using in CRO? 3. Explain what is p-n junction? 4. Explain Varacter diode? 5..ExplainZener diode?	1.Understanding about Electronics. On this basis, study of functioning of few semiconductor devices and provide hands-on experience. 2.To describe the behavior and purpose of various diodes.
Unit – II: Rectifiers, Filters and Regulators: Half wave rectifier, ripple factor, full wave rectifier, Harmonic components in a rectifier circuit, Inductor filter, Capacitor filter, L – section filter, Section filter, Multiple L – Section and Multiple n – Section filter and comparison of various filter circuits in terms of ripple factors, Simple circuit of a regulator using Zener diode, Series and Sheet Voltage regulators.	12 Classes (27-01-25 To 15-02-25)	3.Illustrate the operation of different types Rectifiers, Filters and Regulators	Class room, PPT Projectors	1.What is Filter? 2.What is Rectifier? 3. What is Sweep time? 4. Discuss the working of L- section filter	3.To understand the operation of different types Rectifiers, Filters and Regulators
Unit – III: Transistor and F E T characteristics:Junction transistor, Transistor current components, Transistor as a amplifier, Transistor construction, Transistor alpha, input and output characteristics of Transistor in common base, common emitter and common collector configurations, Relation between Alpha and Beta, typical transistor junction voltage values, JFET characteristics, Small signal model of JFET, MOSFET characteristics (Enhancement and depletion mode), Symbol of MOSFET, Comparison of Transistors. **Bias and Stabilization**:B J T biasing, D C equivalent model, criteria for fixing Operating point methods of Bias stabilization, Thermal run away, Thermal stability, comparison of B J T, JFET and MOSFET devices.	12 Classes (17-02-25 To 06-03-25)	4.Illustrate the operation of Bipolar Junction Transistor and its characteristics. 5.Demonstrate the operation of JFET and MOSFET and their characteristics.	Class room, PPT Projectors	1. Explain the working of N- Channel JFET and explain the v-I characteristics? 2. Explain construction and working of BJT.	4.To Understand and analyze bipolar junction transistor (BJT). 5.To demonstrate the switching & amplification of the semiconductor devices (FET).
Unit – IV: Amplifiers:Small signal low frequency transistor amplifier circuits: h – parameter representation of a transistor, Analysis of Single stage transistor amplifier using h – parameters. Voltage gain, current gain, input impedance and output impedance, FET and MOSFET small signal model. Feedback Amplifiers:Concept of Feedback, classification of Feedback amplifiers, General characteristics of negative Feedback amplifiers, Effect of Feedback on Amplifier characteristics, Simple problems. Oscillators:Condition for Oscillations, R C and L C type Oscillators, Crystal Oscillators, Quartz, Hartley and Colpitts Oscillators, R C – phase shift and Wien – bridge Oscillators.	13 Classes (07-03-25 To 22-03-25)	6.Introduce extend the operation of semiconductor devices. 2.Introduce the feedback amplifier Concept, classification, characteristics, feedback effect.	Class room, PPT Projectors	1. State and explain FET and MOSFET? 2. Discuss the general form of an LC oscillator and derive the equation for oscillator? 3. Explain the working of Colpitt's Oscillator?	6.To understand Extend the operation of semiconductor devices.

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Teaching Lesson Plan Format

2024-2025

Subject: UNIX

Class:BSC (CSE) I YEAR

Semester: II

Name of the Faculty: Ms.Arshiya Fatima

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit – I: UNIX Utilities:Introduction to UNIX file system, vi editor, file handling utilities, security by file permission, process utilities, disk utilities, Networking commands.	13 Classes (12-12-24 To 03-01-25)	1.To introduce UNIX file system, Utilities, vi editor ,file, process & disk handling commands	Class room, PPT Projectors	1.Discuss the main features of Unix operating system 2.What is command line editing	1. To understand the UNIX file system, Utilities commands for vi, file, process & disk handling commands.
Unit:2 : Problems solving approach in UNIX: Using single commands, using compound commands, shell scripts, C Programs, building own command, library of Programs. Working with the Bourne Shell: Introduction to Shell, Shell responsibilities, pipes and input redirection, output redirection, shell variables, shell commands	12 Classes (04-01-25 To 03-02-25)	2.To introduces problem solving using shell scripts , born shells, commands ,pipes, scripts & variables etc.	Class room, PPT Projectors	3.Define a variable and distinguish between user define variable and a pre define variable. 4.Explain different ways for combining several command into one line	2. To solve the problems using shell scripts, born shells, various commands, pipes, scripts & variables etc.
Unit:3 : UNIX Internals – 1:UNIX file structure, directories, Files and devices, system calls, library functions, low level file access, usage of open, create, read, write close, lseek, stat, fstat.	12 Classes (04-02-25 To 27-02-25)	3. To familiarize the students to Low level file access and system calls.	Class room, PPT Projectors	5.Explain in detail about Unix operating structure 6.Write about accessing Unix operating system	3. To know the Low level file access and system calls. To gain knowledge about 8086 Interrupts & Interrupt Applications
Unit:4: UNIX Internals – 2: The Standard I /O (fopen, fclose, fflush, fseek, fgetc, getchar, fputc, putchar,fgets, gets) formatted I / O stream errors, Streams and file descriptors, file and directory maintenance (chmod, chown, unlink, syslink, mkdir, chdir, getcwd), Directory handling system calls (opendir, readdir, closedir, rewinddir, seekdir, telldir.)	13 Classes (28-02-25 To 22-03-25)	4. To equip the students with Unix io, formatted commands. 5. To equip the students file and directory handling commands.	Class room, PPT Projectors	7.Explain system calls with syntax 8.Briefly explain the file input output	4. To use Unix IO commands, formatted IO commands and directory handling commands. 5. To use file and directory handling commands.

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Dept. of B. Sc(CSE) ,Teaching Lesson Plan Format 2024-2025

Subject: CO 8086
Class: BSC(CSE) II Year

Semester: III
Name of the Faculty: Mr. Syed Mehboob

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit:1 Number System: Binary Number System, Decimal to Binary Conversion and vice versa, Octal Number system, Binary to Octal and Octal to Binary conversion, Octal to Decimal conversion and vice versa. Hexadecimal system to Binary conversion and vice versa, Decimal to Hexadecimal and vice versa conversion	13 (03-06-24 To 02-07-24)	1. To Identify and use Number Systems.	Class room, PPT Projectors	1.Write various Number Systems 2. Conversion of Number system to different Radix	1. To recognize different types of number system related to computer
Unit:2: Boolean Algebra and Logic Gates: Logic Gates, NOT, AND, OR, NAND, NOR, EX – OR, EX – NOR Gates, Basic theorems and properties of Boolean Algebra, de Morgan theorem.	12 (03-07-24 To 16-08-24)	2. To learn about Basic Gates and Universal Gate.	Class room, PPT Projectors	1.Various Logic Gates 2.Basic Theorems of Boolean Algebra 3.properties of Boolean Algebra 4.De Morgan theorem.	2. To use Logic Gates and Universal Gates.
Unit:3 : Combination Logic Circuits:Half and Full Adder, Binary Parallel Adder. Sequential Logic Circuits: Flip – Flop, S R Latch, R – S Flip Flop, D Flip – Flop, J K Flip – Flop, Master Slave J K Flip Flop, Applications of J K Flip Flop	12 (17-08-24 To 20-09-24)	3. To learn about Full and Half Adder using Gates. 4. To learn about Sequential Logic Circuits	Class room, PPT Projectors	1.Write about Combination Logic Circuits 2.Various Sequential Logic Circuits 3.SR Latch 4.Application of JK Flip-Flop	3. To construct half and full adder using gates. 4. To design and analyze Sequential Logic Circuits.
Unit:4: Register and Counters: Registers, Shift Registers, Decoder, Encoder, Multiplexer, De Multiplexer, counters, Asynchronous Counters, Synchronous Counters, Programmable Counters.	13(21-09-24 To 21-10-24)	To learn about Register and Counters.	Class room, PPT Projectors	1.write about Registers ,Shift Registers 2. Discuss about Decoder, Encoder, Multiplexer, De Multiplexer 3. Explain about various types of Counters	5. To Gain Knowledge about Registers, Multiplexer and counters

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Dept. of B. Sc(CSE) -Teaching Lesson Plan Format 2024-2025

Subject : OOPS THROUGH C++ SEMESTER : III

Class: BSC(CSE) II YEAR Name of the Faculty :Mrs. Arshiya Fatima

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit:1 : Introduction to Object Oriented Programming: Basic concepts of Object Oriented Programming, Introduction to the C++ history, Keywords, Tokens,Variables Constants, Data types, Operators.	13 (03-06-24 To 02-07-24)	1. Object Oriented Programming concepts using the C++ language	Class room, PPT Projectors	1.Discuss Object oriented programming 2 Explain about Data types. 3.write about keywords 4.what are operators	1. To understand the OOP concepts
Unit:2 : C++ I / O statements and control structures (If, If-Else, Switch, for while and do-while loops). Functions – Prototyping, parameter passing by value and by reference, function overloading. Arrays – Single and Multi dimensional Pointers and reference Variables.	12 (03-07-24 To 16-08-24)	2 I/O , control structures ,functions and arrays	Class room, PPT Projectors	1.Discuss if,if-else control structure 2.Define loops 3. What are arrays? Explain its types?	2. To develop programs with control structures ,functions and arrays
Unit:3 : Classes and Objects – Data members, member functions, functions, Inline Function, overloading, nesting of member functions, private, public, protected and static data members and member functions. Arrays in a class, Arrays of objects, member allocation of objects, Objects as function arguments, friend function, Returning Objects.	12 (17-08-24 To 20-09-24)	3.Objects ,Classes and functions in C++	Class room, PPT Projectors	1.Define classes 2.Write about Inline functions. 3.Discuss about public, private, protected 4.what is friend function	3. To develop programs with Objects , Classes and array, functions .
Unit:4 : Constructors with default arguments, destructors. Operator Overloading , types of conversion. **Inheritance:** Single, Multiple, Multi level, Hierarchical and hybrid inheritance. Types of classes: Base class, derived class, Virtual base class, abstract classes, constructor in derived class, member classes and nesting of classes. **Exceptional Handling:** Try, catch, throw and finally statement. **Templates:** Introduction, functions and classes.	13(21-09-24 To 21-10-24)	4.The principles of inheritance virtual functions and polymorphism and Exception handling	Class room, PPT Projectors	1.Explain about constructors and destructor 2.Define inheritance .Explain its different types 3. Discuss in detail about Exceptional Handling.	4.To handle inheritance ,virtual functions and polymorphism and Exception handling exceptions in C++ Programs..

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Dept. of B. Sc(CSE) - Teaching Lesson Plan Format 2024-2025

Subject: OPERATING SYSTEM
Class: BSC (CSE) II YEAR

SEMESTER: III
Name of the Faculty:Miss. Talat Sultana

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit:1 : Introduction of Operating Systems: Computer System structure, Operating System structures, Process concept, Process Scheduling , Inter Process communication: C P U Scheduling, Real time Scheduling, Algorithm Evaluation, Multitasking, Multi Programming, Time Sharing, Buffering, Thread.	13 (03-06-24 To 02-07-24)	1. To provide an introduction to operating system concepts (processes, threads, scheduling,)	Class room, PPT Projectors	1.what are the components of operating system 2 Explain Inter process communications. 3. Explain about process scheduling. 4.Write about multitasking, and multiprogramming	1 To gain the knowledge of process thread and scheduling
Unit:2 : Process Synchronization: The Critical section problem synchronization Hardware, semaphores Classical problems of synchronization, critical regions, Monitors, Atomic Transaction **Dead lock:** System Model, Dead lock characterization, Methods of handling Deadlocks, Dead lock prevention, avoidance, detection, Recovery from Dead lock, combined approach to Dead lock handling.	12 (03-07-24 To 16-08-24)	2. To introduce Inter process communication. -To introduce synchronization, deadlocks	Class room, PPT Projectors	1.Explain in detail about Critical section problem 2.Define semaphores 3. Explain about dead lock and discuss its methods of handling Deadlocks.	2 To understand the concepts of inter process communication.
Unit:3 :Memory Management: Introduction, Logical versus physical address space, Swapping, continuous allocation, paging, segmentation virtual memory – Introduction, Demand Paging, Performance of Demand paging, page replacement Algorithm, Allocation of frames, Thrashing, Other consideration, Demand segmentation.	12 (17-08-24 To 20-09-24)	3.To introduce memory management techniques .	Class room, PPT Projectors	1. Define Memory Management. 2. Write about paging. 3.Discuss about page replacement algorithm 4.Explain about swapping.	3. To understand the various memory management techniques
Unit:4 :File System Interface: File concept, Access methods, Directory structure and protection, File system implementation, File system structure, Allocation methods, free space, management, Directory implementation, Secondary storage structure, Disk structure, Disk Scheduling, Disk management, Swap – Space management.	13(21-09-24 To 21-10-24)	4. To introduce file and directory structure and protection	Class room, PPT Projectors	1. Explain about File system. 2.Define file system structure 3. write in detail about Disk management	4.To gain practical knowledge of file and directory structure and protection.

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Teaching Lesson Plan Format

2024-2025

Subject: Programming in Java

Class:BSC (CSE) II YEAR

Semester: IV

Name of the Faculty: Ms.Arshiya Fatima

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit 1: History of Java, Java features. How Java differs from C and C++. Java and Internet, Java and World Wide Web – Web Browsers – Hardware and Software requirements – Java Environment. Overview of Java Language: Simple Java Program – Java Program structure – Java Statements – Implementing a Java Program – Java Virtual Machine – Command Line Arguments.	13 Classes (12-12-24 To 03-01-25)	1. To explore the object oriented programming concepts	Class room, PPT Projectors	1.Discuss the history of java 2.What are features of java	1. 1.Able to solve real world problems using OOP techniques
Unit 2: Constant and Variables: Constants – Variables – Data types – Declaration of Variables – Giving Values to Variables – Symbolic Constants – Type Casting. Operators and Expressions: Arithmetic Operators – Relational Operators – Logical Operators – Assignment Operators – Increment and decrement Operators – conditional Operators. 62 Decision Making and Branching: Decision making with if Statement – Simple if Statement – The? Operator. Looping: The While Statement – The Do Statement – The For Statement – Jumps in loops	12 Classes (04-01-25 To 03-02-25)	2.To introduce java programming in solving problems	Class room, PPT Projectors	1.What is Boolean in java 2.What is variable	2. Able to solve problems using java collection framework and I/o classes.
Unit 3 :classes, Objects and Methods: Defining a class – fields declaration – methods Declaration – creating Objects – Accessing class members.- Constructors – Methods overloading – Static members – Nesting of methods. Inheritance: Overriding methods – Final variables and methods – Final classes abstract methods and classes – Visibility control. Array, Strings and Vectors: One dimensional Array – creating an Array – Two dimensional Array – String vectors – Wrappers classes – Enumerated type.	12 Classes (04-02-25 To 27-02-25)	3. To introduce the principles of inheritance and polymorphism	Class room, PPT Projectors	1.What are arrays explain its types 2.What is inheritance explain its different types.	3. Able to develop multithreaded applications with synchronization.
Unit:4: Interfaces: Defining Interfaces – Extending Interfaces – Implementing Interfaces. Packages: Java APT packages – Using system Packages – Naming convensions – creating packages. Multithreading Programming: Creating Threads – Extending the Thread Class – Stoppind and Blocking a Thread – Life cycle of a Thread. Exception Handling: Managing Errors and Exceptions – Types of Errors – Exceptions – Syntax of Exception Handling Code – Multiple Catch Statements – Using Finally Statement.	13 Classes (28-02-25 To 22-03-25)	4.To introduce the implementation of packages and interfaces5. To introduce the concepts of exception handling and multithreading..	Class room, PPT Projectors	1.What is an interface explain the implementation of interface 2.Explain life cycle of a thread.	4.Able to develop applications using packages and interface 5.Able to design programs using exception handling and multithreading

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Teaching Lesson Plan Format

2024-2025

Subject:Data structure

SEMESTER :IV

Class: BSC(CSE) II YEAR

Name of the Faculty: Mrs. Tasneem Fatima

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit – I: Data Structure: Data and Data items, Data types, concepts of Data Structure, Classification of Data Structures. Operations on Data Structures, Array, types of Arrays, Multi dimensional Arrays. Sorting: Bubble, Selection and Insertion sort, quick sort, tree sort.	13 (12-12-24 to 03-01-25)	Provide an concept of data classification of data, data structure n sorting techniques	Class room, PPT Projectors	1.what is data structure and what are the types of data structure.2 .write the difference between linear and non-linear data structure3.write about one,two and multi-dimensional of arrays4.what are arrays ,explain the characteristics of an array	Understanding the concept of data classification of data, data structure n sorting techniques.
Unit – II: Linked Lists:Linked list concepts, Advantages, types of Linked lists, comparison between Array and Linked list, creating simple, Linked list, performing operations (Traversing, inserting, deleting) on Linked list, Creating Double Linked list, advantages, Operations on double Linked list, Creating Circular Linked list, operations on a Circular Linked list.Top Down Parsing: Recursive descent parsing, L L (1) parsing, first and follow sets, Recursive descent parser.	12 (04-01-25 To 03-02-25)	Introduce to linked list, comparison between array and linked list ,traversing operations .	Class room, PPT Projectors	1 What is linked list explain the advantages disadvantages and types of linked lists2.Write the difference between array and linked lists 3.What are the basic operations of list 4.What is circular linked list?	Understand the to linked list, comparison between array and linked list ,traversing operations .
Unit – III: Stack and Queues:Representation of Stacks, conversion of Arithmetic expression, use of Stack in evaluating arithmetic expression, Representation of Queue, Linked list implementation of Queue, Applications of Queue, Representation of Circular Queues, D – Queues, Priority Queue. Searching: Linear search and Binary search.	12 (04-02-25 To 27-02-25)	Introduction to stack usage of stack and queues ,priority queue linear search and binary search	Class room, PPT Projectors	1.what is stack explain the representation of stacks2.what is Queues explain the representation of Queues3.What is priority Queue explain characteristics and types of priority queue?4.write about linear secarch and binary search?	Understanding stack, useage of stack and queues ,priority queue linear search and binary search
Unit – IV: **Binary Tree**: Tree Terminology, Binary Tree, complete Binary Tree, Binary Tree Traversal technique (Preorder, Inorder, Postorder), Array based representation of Binary Trees, Linked based representation of Binary Tree, Complete Binary Tree. **Graphs**: Introduction, Representation of Graphs, Traversing a Graph, Breadth First Search and Traversal, Depth First Search and Traversal techniques.	13(28-02-25 To 22-03-25)	Introduce binary tree, traversal technique with all orders graphs and BFS n DFS traversal techniques	Class room, PPT Projectors	1 write about binary tree traversal technique(preorder , inorder and postorder 2.What are graphs, how to represent a graph 3.write about breadth first search 4. write about traversing of a graph	Understand the binary tree, traversal technique with all orders graphs and BFS n DFS traversal techniques

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Teaching Lesson Plan Format

2024-2025

Subject: MDBMS

Class:BSC (CSE) II YEAR

Semester: IV

Name of the Faculty: Mrs. TASNEEM FATIMA

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit:1 :Data Base Systems: Evolutions – File Oriented Systems Data Base models – Data base System Components – Data base systems in the Organization Data Sharing Strategic Data base Planning – Data base and Management Control – Risks and Costs and Data base Development.	13 Classes (12-12-24 To 03-01-25)	1.The basic concepts and the applications of database systems.	Class room, PPT Projectors	1.Discuss three level db arch. 2.Write about risk and cost of db approach 3.Advantage of DB systems 4.Disadvantages of File System	1.To Gain knowledge of fundamentals of DBMS and its uses
Unit:2 :Data Base Design: Principles of Conceptual Data base Design Conceptual Data model Fundamental concept – Normalization Transforming a conceptual model to Relational model – Relational Data Base implementation – Relational Algebra and Calculus.	12 Classes (04-01-25 To 03-02-25)	2.Database design, Normalization, relational model, relational algebra,	Class room, PPT Projectors	1.Explain 3 normal form and BCNF 2.Draw a ER diagram for college 3.Write a note on Relational Algebra	2.Todesign a logical database using data models. And To apply the normal forms
Unit:3 :S Q L Schema and Tables: Definition Data Manipulation – View Definition – Graphical Query Language - Client Serve Data base Defining Data base Tables and Server Data Manipulation and Programming Developing Client Applications.	12 Classes (04-02-25 To 27-02-25)	3.The basics of SQL and construct queries using SQL	Class room, PPT Projectors	1Joins 2Ddl 3DML 4.DCL	3.To design Physical database and master in SQL commands
Unit:4 :Physical Data Base Systems: Storage Media – Disk Performing Factors – File Organization Implementation Logical Relationships Mapping Logical Data Structures to Physical Structures – Secondary Keys Access – Data base Administration and Integrity – Data base Security Data base Recovery. Distributed Data base Systems – Design Query Procession – Data Implementation Information Needs – D B M S functions and Capabilities – Classifying D B M S features requirement – Evaluation models – Implementation issues – Case studies of RDBMS package such as ORACLE / MS – SQL Server.	13 Classes (28-02-25 To 22-03-25)	5.The storage structures & access, distributed database systems	Class room, PPT Projectors	1.File organization 2 Recovery 3.Database administration 4.What are file organizations indexing	5.To familiarity with database storage structures and access techniques

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Dept. of B. Sc(CSE) - Teaching Lesson Plan Format 2024-2025

Subject:CN

Class: B.Sc CSE

Semester: V

Name of the Faculty: Mrs. Tasneem Fatima

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit:1 :Basic concepts: Components of data communication, standards and organizations, Computer network goals, Network Classification, Network Topologies; network protocol; layered network architecture; overview of OSI reference model; overview of TCP/IP protocol suite, Examples of Networks Novell Networks, Arpanet, Internet.	13 (03-06-24 To 02-07-24)	1. To equip the students with overview & concepts of fundamentals of computer networks	Class room, PPT Projectors	1.define CN? explain network topologies 2.Explain overviews of OSI MODEL 3.TCP/IP PROTOCOL SUITE 4.comp. networks goals	1. To know of the basic computer network technology
Unit:2 :Physical Layer and Data Link Layer: Transmission media copper, twisted pair wireless, switching and encoding asynchronous communications; Narrow band, broad band ISDN and ATM. Design issues, framing, error detection and correction, CRC, Elementary Protocol - stop and wait, Sliding Window, Slip, Data Link Layer in HDLC, Internet.	12 (03-07-24 To 16-08-24)	2. To familiarize the students with the standard models for the layered approach to communication between machines in a network.	Class room, PPT Projectors	1.explain transmission media copper, twisted pair wireless F 2.design issues, error detection and correction 3.sliding window , HDLC	2.To design logical database using data models. And To apply the normal forms
Unit:3 :Medium Access Sub Layer: ALOHA, MAC addresses, Carrier Sense Multiple Access, IEEE, 802.x Standard Ethernet, Wireless LANS, Bridges. Routing: Dynamic routing – Broadcast routing, Rotary for mobility. Congestion Control Algorithms – General Principles of Congestion prevention policies. Internet Working: The Network Layer in the Internet and in ATM Networks.	12 (17-08-24 To 20-09-24)	3. To introduce various layers, functions of each layers. 4. To introduce the routing algorithms.	Class room, PPT Projectors	1 ALOHA, MAC addresses ,CSM 2 dynamic routing 3.congestion control algorithms 4.n/w in internet & ATM networks	3. To gain the knowledge in network design and implementation. 4. To obtain the skills of sub-netting and routing mechanisms
Unit:4 :Transport Layer and Application Layer: Transport Services, Connection management, TCP and UDP Protocols; ATM AAL Layer Protocol. Network Security, Domain Name System, SNMP, Electronic Mail, World Wide Web, Multimedia	13(21-09-24 To 21-10-24)	5. To introduce varies protocols in application layers	Class room, PPT Projectors	1.transport service, connection Mgmt. 2 TCP & UDP Protocol 3.n\w security 4.DNS, SNMP WWW &multimedia	5. Familiarity with the essential protocols of computer networks in application layer.

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Dept. of B. Sc(CSE) - Teaching Lesson Plan Format 2024-2025

Subject: compiler construction SEMESTER :V

Class: BSC(CSE) III YEAR Name of the Faculty: Mss. Talat Sultana

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit – I: **Introduction:** Compilers, The translation process, Data structures and issues in Compiler structure, Bootstrapping. **Scanning:** The Scanning process, Regular expression, Finite Automata, Regular expressions to DFA's use of LEX to generate Scanners.	13 (03-06-24 To 02-07-24)	Provide an understanding of the fundamental principles in compiler design and it phases	Classroom, PPT Projectors	1.write about compiler, translation process. 2 write about data structure and issues of compiler 3.write about bootstrapping regular expression, finite automata 4. explain regular expression to DFA use of LEX to generate scanner	Understand fundamentals of compiler and identify the relationships among different phases of the compiler.
Unit – II: **Context Free Grammars and Parsing:** The Parsing process, Context free grammars, Parse Tree and Abstract Syntax trees. EBNF and Syntax diagrams and properties of CFLs. Top Down Parsing: Recursive descent parsing, L L (1) parsing, first and follow sets, Recursive descent parser.	12 (03-07-24 To 16-08-24)	Introduce finite state machines and the scanning process in the compiler.	Classroom, PPT Projectors	1.define parsing process, context free grammar, parse tree 2.write about abstract syntax tress, EBNF and syntax diagram and properties of CFLs. 3. write about recursive descent parsing, L L parsing ,first and follow sets.	Understand the application of finite state machines and scanning.
Unit – III: **Bottom up Parsing:** Overview L R (O) items and L R (O) Parsing, S L R (1) Parsing, general LR (1) and LALR(1) Parsing, YACC and Error recovery in bottom – up Parsers. **Semantic Analysis:** Attributes and attribute grammars, Algorithms for attribute computation, Symbol table, Data types and Type checking	12 (17-08-24 To 20-09-24)	Introduce top down and bottom up parsing	Classroom, PPT Projectors	1 define L R(0) items LR(0),SLR(1)parsing, general LR(1) and LALR(1)parsing 2.Write about YACC and Error recovery in bottom-up parsers. 3.explain concepts attributes and attribute grammar algorithms for computation.	Understand the top down and bottom up parsing methods.
Unit – IV: **Run time Environments:** Memory Organization during program execution, Fully Static Runtime Environments, Stack – based Runtime Environments, Dynamic Memory and Parameter Parsing mechanisms. **Code Generation:** Intermediate code and data structures for code generation, Basic code generation techniques, Code generation of data structure references, Code generation of Control Statements And logical expressions, code optimization technique	13(21-09-24 To 21-10-24)	Introduce the various optimization methods. Learn translating a high-level language to executable	Class room, PPT Projectors	1.Explain memory organization during program execution. 2Explain full static runtime environment ,stack based runtime environments , dynamic memory 3 write about parameter parsing mechanisms	Understand the various tools for optimization. Use modern tools and technologies for designing new compilers.

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(Affiliated to Osmania University)

Accredited by NAAC with 'A+' Grade

New Mallepally, Hyderabad – 500001, T.S,India.

Dept. of B. Sc(CSE) - Teaching Lesson Plan Format 2024-2025

Subject: MDBMS
Class: BSc CSE

Semester: V
Name of the Faculty: Mr. Israr Ahmed

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit:1 :Data Base Systems: Evolutions – File Oriented Systems Data Base models – Data base System Components – Data base systems in the Organization Data Sharing Strategic Data base Planning – Data base and Management Control – Risks and Costs and Data base Development.	13 (03-06-24 To 02-07-24)	1.The basic concepts and the applications of database systems.	Class room, PPT Projectors	1.Discuss three level db arch. 2.Write about risk and cost of db approach 3.Advantage of DB systems 4.Disadvantages of File System	1.To Gain knowledge of fundamentals of DBMS and its uses
Unit:2 :Data Base Design: Principles of Conceptual Data base Design Conceptual Data model Fundamental concept – Normalization Transforming a conceptual model to Relational model – Relational Data Base implementation – Relational Algebra and Calculus.	12 (03-07-24 To 16-08-24)	2.Database design, Normalization, relational model, relational algebra,	Class room, PPT Projectors	1.Explain 3 normal form and BCNF 2.Draw a ER diagram for college 3.Write a note on Relational Algebra	2.Todesign a logical database using data models. And To apply the normal forms
Unit:3 :S Q L Schema and Tables: Definition Data Manipulation – View Definition – Graphical Query Language - Client Serve Data base Defining Data base Tables and Server Data Manipulation and Programming Developing Client Applications.	12 (17-08-24 To 20-09-24)	3.The basics of SQL and construct queries using SQL	Class room, PPT Projectors	1Joins 2Ddl 3DML 4.DCL	3.To design Physical database and master in SQL commands
Unit:4 :Physical Data Base Systems: Storage Media – Disk Performing Factors – File Organization Implementation Logical Relationships Mapping Logical Data Structures to Physical Structures – Secondary Keys Access – Data base Administration and Integrity – Data base Security Data base Recovery. Distributed Data base Systems – Design Query Procession – Data Implementation Information Needs – D B M S functions and Capabilities – Classifying D B M S features requirement – Evaluation models – Implementation issues – Case studies of RDBMS package such as ORACLE / MS – SQL Server.	13(21-09-24 To 21-10-24)	5.The storage structures & access, distributed database systems	Class room, PPT Projectors	1.File organization 2 Recovery 3.Database administration 4.What are file organizations indexing	5.To familiarity with database storage structures and access techniques

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Dept. of B. Sc(CSE) - Teaching Lesson Plan Format 2024-2025

Subject: OOAD
Class: BSC(CSE) III YEAR

SEMESTER :V
Name of the Faculty: Mr. Israr Ahmed

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
UNIT - I :**Introduction to UML :** Importance of modeling, principles of modeling, object oriented modeling, conceptual model of the UML, Architecture, Software Development Life Cycle.	13 (03-06-24 To 02-07-24)	Explore Objects and Classes of the software system.	Class room, PPT Projectors	1.write about importance and principles of modeling 2 explain about object oriented modeling 3.write about conceptual model of uml 4. explain software development life cycle	1. Able to analyze the problem and apply to real world problems.
UNIT-II **:Basic Structural Modeling** : Classes, Relationships, common Mechanisms, and diagrams. Advanced Structural Modeling .Advanced classes, advanced relationships, Interfaces, Types and Roles, Packages	12 (03-07-24 To 16-08-24)	Introduce construct object model using object types, attributes, structures and associations	Class room, PPT Projectors	1.define classes, relationships 2.write about common mechanisms and diagram 3. write about advanced classes, relationships interface type and roles , packages	2. Able to construct object-oriented system , modeling objects, relationships and interactions.
UNIT-III: **Class & Object Diagrams:** Terms, concepts, modeling techniques for Class & Object Diagrams.	12 (17-08-24 To 20-09-24)	Introduce Object-Oriented Methodologies ,Analyze Functional & Dynamic Modelling.	Class room, PPT Projectors	1 Define class and object 2.Write about modeling techniques 3.Explain concepts of class and object diagrams	3. Able to discuss software design in an object-oriented manner.
UNIT-IV : **Basic Behavioral Modeling-I** : Interactions, Interaction diagrams. **Basic Behavioral Modeling-II :** Use cases, Use case Diagrams, Activity Diagrams. **Case Study:** The Unified Library application.	13(21-09-24 To 21-10-24)	Introduce interaction diagrams . Introduce Use case Diagrams, Activity Diagrams .	Class room, PPT Projectors	1.Explain about interaction diagrams 2Explain use case diagrams 3 write about activity diagrams	4. Able to draw Interaction diagrams 5. Able to draw and analyse Use case Diagrams, Activity Diagrams.

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Teaching Lesson Plan Format

2024-2025

Subject: IOT
Class:BSC (CSE) III YEAR

Semester: VI
Name of the Faculty: Mrs. TASNEEM FATIMA.

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
UNIT– I : Introduction to Internet of Things: IOT vision, Strategic research and innovation directions, IoT Applications, Related future technologies, Infrastructure, Networks and communications, Processes, Data Management, Security, Device level energy issues.	13 Classes (12-12-24 To 03-01-25)	1. Provide an understanding what IoT is and how it works today	Class room, PPT Projectors	1.Explain IOT Vision and strategic research and innovation direction	1. Understand what IoT is and how it works today.
UNIT–II: Internet Principles and communication technology: Internet Communications: An Overview – IP, TCP,IP protocol Suite, UDP. IP addresses – DNS, Static and Dynamic IP addresses, MAC Addresses, TCP and UDP Ports, Application Layer Protocols – HTTP, HTTPS, Cost Vs Ease of Production, Prototypes and Production, Open Source Vs Closed Source.	12 Classes (04-01-25 To 03-02-25)	2.Introduce the factors that contributed to the emergence of IoT	Class room, PPT Projectors	1Discuss internet communication protocol 2.Explain Application layer protocols.	2. Understand the factors that contributed to the emergence of IoT .
UNIT–III: Prototyping and programming for IoT: Prototyping Embedded Devices – Sensors, Actuators, Microcontrollers, SoC, Choosing a platform, Prototyping Hardware platforms – Arduino, Raspberry Pi. Prototyping the physical design – Laser Cutting, 3D printing, CNC Milling. Techniques for writing embedded C code: Integer data types in C, Manipulating bits – AND, OR, XOR, NOT, Reading and writing from I/ O ports. 82.	12 Classes (04-02-25 To 27-02-25)	3. Introduce Internet and communication technologies for IoT..	Class room, PPT Projectors	1.discuss Prototyping Embedded Devices 2.Explain techniques for writing embedded C code	3. Understand the Internet and communication technologies for IoT.
UNIT–IV Cloud computing and Data analytics: Introduction to Cloud storage models -SAAS, PAAS, IAAS. Communication APIs, Amazon web services for IoT, SkynetIoT Messaging Platform. Introduction to Data Analytics for IoT – Apache Hadoop- Map reduce job execution workflow.EthicalissuesinIoT-Privacy, Control, Environment, solution sto ethical issues.	13 Classes (28-02-25 To 22-03-25)	4. Provide Prototyping and programming for IoT 5. Introduce Cloud computing and Data analytics	Class room, PPT Projectors	1.Explain cloud storage models 2.Discuss amazon web services 3.Discuss Apache Hadoop- Map reduce job execution workflow	4. Understand prototyping and programming for IoT 5. Understand the Cloud computing and Data analytics.

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Teaching Lesson Plan Format 2024-2025

Subject: Introduction to Data science using Python
Class: BSC (CSE)III YEAR

Semester: VI
Name of the Faculty: Mr. ISRAR AHMED

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit – I: Data Science: Introduction to data science, the Data Science Process, A Data Scientist's Role in This Process. Why Python for data science, Different phases of a typical Data Science projects and role of python, Anaconda vs. Python. Algorithms: Machine Learning algorithms, Three Basic Algorithms-Linear Regression ,k-Nearest Neighbors(KNN),K-Means , Logistic regression	13Classes (12-12-24 To 03-01-25)	1. To introduce the concept of data science and its fundamentals. 2. To introduce various ML algorithms..	Class room, PPT Projectors	1.Explain Different phases of a typical Data Science projects 2.Discuss ML algorithms	1. To understand data science phases of data science process and its role.
Unit: 2: Introduction to Python: Python, Features of Python, Execution of a Python Program, Comparisons between C and Python, Comparisons between Java and Python. Writing Our First Python Program: Installing Python for Windows, Installing numpy, Setting the Path to Python, Writing Our First Python Program, Executing a Python Program, Getting Help in Python, Getting Python Documentation Help, Reopening the Python Program in IDLE. Data types in Python: Comments in Python, Doc strings, How Python Sees Variables, Data types in Python, Built-in data types, Boolean Data type, Sequences in Python, Sets, Literals in Python, Determining the Data type of a Variable, What about Characters, User-defined Data types, Constants in Python, Identifiers and Reserved words, Naming Conventions in Python.	12 Classes (04-01-25 To 03-02-25)	3. To acquire programming skills in core Python. 4. To familiarize data types in python.	Class room, PPT Projectors	Explain Features of Python, Execution of a Python Program, Discuss Data types in Python	2. To understand various algorithms in machine learning.
Unit:3 :Operators in Python: Arithmetic Operators, Assignment Operators, Unary Minus Operator, Relational Operators, Logical Operators, Boolean Operators, Bitwise Operators, Membership Operators, Identity Operators, Operator Precedence and Associativity, Mathematical Functions. Input and Output: Output statements, Input Statements, Command Line Arguments. Control Statements: Control Statements, The if Statement, A Word on Indentation, The if ... else Statement, The if ... elif ... else Statement, The while Loop, The for Loop, Infinite Loops, Nested Loops, The else Suite, The break Statement, The continue Statement, The pass Statement, The assert Statement, The return statement.	12 Classes (04-02-25 To 27-02-25)	5. To understand various operators and control. statements	Class room, PPT Projectors	Explain Operators in Python	3. To understand python programming and data types.
Unit:4: Arrays in Python: Array, Advantages of Arrays, Creating an Array, Processing the Arrays, Types of Arrays, Working with Arrays using numpy, Working with Multi-dimensional Arrays, Sorting the Matrix, Transpose of a Matrix, Matrix Addition and Multiplication. Strings and Characters: Creating Strings, Length of a String, Indexing in Strings, Slicing the Strings, Concatenation of Strings, Comparing Strings, Removing Spaces from a String, Finding Sub Strings, Counting Substrings in a String, Replacing a String with another String, Formatting the Strings.	13 Classes (28-02-25 To 22-03-25)	6. To understand the working of Types of Arrays.	Class room, PPT Projectors	1.ExplainArrays in Python 2. Discuss Strings and Characters	4. To understand Operators in input & output Control Statements. 5. Tounderstand the concept of arrays

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Teaching Lesson Plan Format

2024-2025

Subject: Web Programming

Class:BSC (CSE) III YEAR

Semester: VI

Name of the Faculty: Mr. Israr Ahmed

Topic/Unit/Chapter	No. of Classes (From - to-)	Objectives To introduce	Teaching Aid Used	Assessment	Outcomes Students will be able
Unit:1 :H T M L Basics: Introduction: HTML, XML and the World Wide Web, Basic HTML, the Document body, Text, Hyperlinks, Adding more formatting Lists, Tables, Using Colors and Images, Multimedia Objects, Frames, Forms – towards interactivity.	13 Classes (12-12-24 To 03-01-25)	1.To introduce HTML &DHTML language for client –sides scripting	Class room, PPT Projectors	1. Write about structure of html document. 2.Explain different types of tags 3. What are different form elements? 4. Create a time table in html.	1. Gain knowledge of client-side scripting, validation of forms.
Unit – II: Introduction to DHTML: Using styles – Simple examples, defining your own styles, properties and values in styles, Style Sheets – A worked example, Formatting blocks of information, Layers, Java Script basics, Variables, String manipulating, Mathematical functions, Statements, Operators, Arrays, functions.	12 Classes (04-01-25 To 03-02-25)	2. To introduce Cascading style sheets and layers.	Class room, PPT Projectors	1. What are different styles sheets explain in brief? 2. Write a note no properties and values. 3. Write a note on math function in java script. 3.Write a note on string function	2.Understand the use of CSS and layers
Unit:3 : Data and Objects in Java Script: Regular expressions, Exception Handling, Built in Objects, Events, Data validation, Opening a new window, Messages and Configurations, The status bar, writing to a different frame Rollover buttons, Moving images, Multiple pages in a single Download, A Text only menu system, Floating logos.	12 Classes (04-02-25 To 27-02-25)	3.To introduce with Java scripts and it's objects	Class room, PPT Projectors	1. Explain objects in java script. 2. Write note on Regular Expression. 3. Differentiate between exception and event. 4. Explain rollover button. And floating logos.	3.Understand Java scripts and it's objects
Unit:4 : Active Server Pages and Java: Introduction to Active Server Pages and Java, Basic XML, Document type definition, XML, Schema, Document Object Model, Presenting XM, Web Browsers, Basics of Perl, Web Servers, I P and T C P, Hyper Text Transfer Protocol, Common Gateway Interface.	13 Classes (28-02-25 To 22-03-25)	4. To introduce Server-side programming with ASP 5. To introduces the XML.	Class room, PPT Projectors	1. What is ASP? Write a ASP program to welcome the user. 2.Explain the XML schema 3. Write about DOM. 4. Explain HTTP and TCP /IP Protocols.	4.Understand server-side scripting with ASP. 5.Understand what is XML and how to parse and use XML Data

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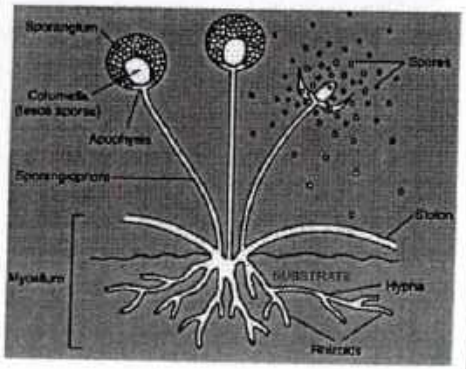
DEPARTMENT OF BOTANY

Teaching Lesson Plan (2024-2025)

Subject: B.Sc Botany **Semester: I** (Microbial diversity in Lower plants)

Class: B.Sc I Year **Name of the Faculty:** Ruksana Nausheed

Topic/Unit/ Chapter	No. of Classes	Objectives	Teaching aids used	Assessment	Outcomes
Unit III **Chapter 7** General Characters and Classification of Fungi (Ainsworth)	4	Define fungi and explain how it reproduces. Recognize numerous fungal species. Classification of fungi Recall that fungal species' structure and spore generation process determines their classification into phyla. Students will be able to classify provided organisms appropriately by understanding the phyla of the	Power point presentation of Fungi classification. 	Recalling previous knowledge Question and Answer session Internal assessment Practical sessions	Students will be able to explain the function of fungi in an ecosystem. Recognize typical fungi that are parasites and diseases. Students learn about the different types of fungus, Students comprehend that they contribute significantly to various sectors and serve as a

Chapter 8 Structure and reproduction of the following : a. Mastigomycotina – Albugo b. Zygomycotina - Mucor c. Ascomycotina -Penicillium d. Basidiomycotina-Puccinia e.Deutero-mycotina **UNIT-IV**	**8** 6	kingdom Fungi. Students will learn the life cycles of different types of fungi and their reproduction. To explain the various plant diseases caused due to the infection of fungi. 	The power point presentations of each genus is shown while explaining the life cycle.  	Students were given assignment on life cycle of Mucor, penicillium, Albugo, Puccinia Students were given assignments on Penicillium life cycle. Students have been given assignment on the life	significant food source. Students learnt the life cycle of different classes of fungi. Students learned the commercial importance of Yeast used in baking,brewing and fermentation. Students learned this fungi can cause leaf

Chapter-10 Bryophytes: structure,reproduction,life cycle and systematic position of Marchantia ,Anthoceros and Polytrichum. Evolution of sporophyte in Bryo Chapter-11 Pteridophytes : Structure,reproduction ,lifecycle and systematic position of Rhynia, Lycopodium ,Equisetum and Marsilea. Chapter- 12 Stelar	6 3	To study Deuteromycetes commonly called as Molds and have no sexual state in their life cycle. To explain the complete life cycle of given species of Pteridophytes. To explain the stellar evolution and Heterospory	 To explain the classification and general characters of Bryophytes.Life cycle of different classes of Bryophytes. 	cycle of Cercospora. Power point presentation and lecture.  Assignment given0	spots, blights, wilts ,rots on plants. Students learned the existence of a type of plants found on earth as Bryophyta ,their structure and reproduction. Students can comprehend the different types of pteridophytes and their life cycles. Students learned the evolution of stele and seed habit and heterospory in pteridophytes. Students learned the evolution of stele and seed habit and

evolution ,Heterospory *and seed habit* in Pteridophytes	3	Power point presentation and lecture. 	Ppt presentation		heterospory in pteridophytes

Signature of Lecturer

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[Affiliated to Osmania University] Accredited by NACC with 'A' Grade New Mallepally BSC/ BZC 1st Year, Semester 1st, 2024-2025/Name of the Faculty: Nazneen Begum [**Bryophytes Pteridophytes**]

S.No	Unit	Topic	Objectives	Teaching Aid Use	Assessment	Outcomes
1.	Unit-1 Bryophytes	* General Characters and Classification.	Introduction of types of classification	Online Tools.	Question and Answers	Morphological [vegetative & reproductive structure]
	Marchantia	* Structure. * Reproduction * Life Cycle & * Systematic position.	To study the structures systamatic	Lecture and Discussion.		and Anatomical Characters of Marchantia.
	Anthoceros	* Structure. * Reproduction * Life Cycle & * Systematic position.	To study structures reproduction	Online Tools.	Sessions. Internal Assessment.	Morphological & Anatomical Characters of Anthoceros.
	Polytrichum	* Structure. * Reproduction * Life Cycle & * Systematic position.	Understand the structure of reproduction ,	Lecture and Discussion.		Morphological & Anatomical
		*Evolution of Sporophyte in Bryophytes.	life cycle and systematic position			Characters of Polytrichum.

2.	Unit-2 Pteridophytes Rhynia Lycopodium Equisetum Marsilea	General Characters and Classification (Sporne's) * Structure. * Reproduction * Life Cycle & * Systematic position. * Structure. * Reproduction * Life Cycle & * Systematic position. * Structure. * Reproduction * Life Cycle & * Systematic position. * Structure. * Reproduction * Life Cycle & * Systematic position.	To study the general characters and classisfication To explain the reproduction To understand the structure of reproduction life cycle To study the general characters and classisfication	Online Tools. Lecture and Discussion. Online Tools. Lecture and Discussion.	Question and Answers Sessions. Internal Assessment.	Morphological & Anatomical Structure of pteridophytes. Vegetative and reproduction structure and Anatomy of Lycopodium. Morphological and Anatomical Structure of Equisetum. Marsilea petiole & rhizome by preparing double stained permanent mounts.

3.	Stelar Evolution Unit-3 Gymnosperms Pinus Gnetum	* Stelar evolution heterospory and seed habit in pteridophytes. * General Characters * Structure * Reproduction & Classification (Spornes) * Distribution of and economic importance of Gymnosperms. * Morphology of vegetative and reproduction parts. * Systematic position & Life cycle. * Morphology of vegetative and reproduction parts. * Systematic position & Life cycle.	To understand the stelar evolution seed habit To the explain general structure Reproduction & Classification To understand the morphology of reproduction parts To explain thd e morphology of vegetative parts	Online Tools. Lecture and Discussion.	Question and Answers Sessions. Internal Assessment.	Anatomical features of Pinus needle by preparing double stained permanent mounts. Anatomical features of Gnetum stem by preparing double-stained permanent mounts.

4.	Unit-4 Paleobotany Bennettitales	* Introduction; Fossils & Fossilization. *Importance of fossils. * Geological time scale. * General account of Bennettitales	To understand the introduction of fossils To explain the fossils ,scale To understand the general account of beennettitales	Online Tools. Lecture and Discussion.	Question and Answers Sessions. Internal Assessment.	Fossil forms using permanent slides photographs; * Rhynia. * Cycadeoidea.

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Topic/unit/chapter Unit-1	**Objectives**	**Teaching Aid use**	**Assessment**	**Outcomes**
Plant diversity its scope 1*Genetic diversity species diversity	Introduction on biodiversity	Online tools	Question and answers sessions	Students understand the role of biodiversity
2*plant diversity at the ecosystem level	To study the ecosystem Differentiate between ethical & aesthetic values	Lecture and discussion	Lecture and discussions	Students understand the uses of ecosystem level
3*Agro biodiversity cultivated plant taxa wild taxa	To study the uses of plants & uses of microbes	Online tools	Question and answers sessions	Students are able to differentiate the Agro biodiversity
4*Values & uses of biodiversity ethical and asthetic values				Students understand the uses of uses of plants uses of microbes
5*precantionary principle methodologist for valuation uses of plants uses of microbes			Lecture and discussions	

UNIT-2nd 6*loss of biodiversity of genetic diversity loss of sps diversity loss of ecosystem diversity 7*loss of agrobiodiversity projected scenario for biodiversity loss 8*management of plant biodiversity organisation association with biodiversity management methodology for IUCN,UNEP, UNEP,UNESCO,WWF, NBPGR Biodiversity legestation & conservation biodiversity information management & communication	To explain different types of diversity To explain the loss of biodiversity scenario for biodiversity To understand the management of plant biodiversity organisation To explain the concept of biodiversity information management communication	Online tools Lecture and Discussion Online tools	Question & answers session Internal assessment Question & Answers session Internal asseessment	Students are able to understand the study loss of biodiversity Learners acquires the knowledge for biodiversity loss To explain the management of plant diversity organisation Students able to recognize the parts of the general account of timbers

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Topic/unit/chapter Unit-1	Objectives	Teaching Aid use	Assessment	Outcomes
1*Anatomy ,meristerm :- types histological organisation of shoot and root apices and theories	Introduction of types of anatomy mristerm	Online tools	Question and answers sessions	Students understand the role of plant anatomy
2.simple and complex tissue	To explain the simple and complex tissue	Lecture and discussion	Lecture and discussions	Students understand the uses of simple and complex tissue
3.stomata and epidermal outgrowth	Understand the stomata and epidermal	Online tools	Question and answers sessions	Students are able to differentiate the vascular and cambium
4.vascular cambium formation and function anomalous secondary growth	Explain the vascular cambium formation and function	Lecture and discussion	Lecture and discussions	Students understand the uses chyranthus, boerhavia, dracaena beta
5.General account stem and root	A chyranthus boerhavia ,dracaena beta	Online tools	Question and answers sessions	

6.General account:-study of local timbers *Teak,[tectona grandis]	Understand the local of timbers teak,rose,red sanders,nallamadi, yegris, & neem	Online tools	Question & answers session	Students are able to understand the study of local timbers
*Rose wood [dalkergia latefdia] *Red sanders [pterocarpus santa tinus]	To study the woods,neems, yegris	Lecture and Discussion	Internal assessment	Learners acquires the knowledge of red senders,terminallia
*nallamaddi terminalia tomentosa]			Question & Answers session	Students able to recognize the parts of the general account of timbers
*yegris a [ptero carpus marsupium]		Online tools		
*neem [azadirachta indica]			Internal asseessment	

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Teaching Lesson Plan (2024-2025)

Subject: B.Sc Botany

Semester: III (Plant Anatomy and Embryology)

Class: B.Sc II Year

Name of the Faculty: Ruksana Nausheed

Topic/Unit/ Chapter	No. of Classes	Objectives	Teaching aids used	Assessment	Outcomes
UNIT-III **Chapter-8** History and importance of embryology.	2hrs	To explain the history of Embryology and its importance.	Lecture	Students were asked to write test in History and importance of Embryology.	Students learned one of the important field of Botany i.e, Embryology.Its history and importance.
Chapter-9 Anther structure,Microsporogenesis , Development of male gametophyte.	4hrs	To explain the structure of Anther,development of male gametophyte.	Lecture and power point presentation. Smart board and flowers are taken and dissected and shown the Anther and slides were shown to make them learn the Transverse	Students were asked to bring different types of flowers having different types of anrther ,dissect and show the anther.	Students learned the development stages of male gametophyte.

			section of anther		
Chapter-10 Ovule structure and types, Megasporogenesis,types and Development of female gametophyte.	4hrs	To explain the female gametophyte and development of female flower and also different types of Ovules	Flowers have been dissected and ovary is being shown under the microscope and also the slides of different types of ovules have been shown.	Students have been given the assignment on Megasporogenesis and different types of ovules.	Students learned the development of female gametophyte and types of ovules found in different types of plants belonging to different families.
UNIT-IV Chapter-11 Pollen morphology, pollination and fertilization,Pollination Types ,pollen-pistil interaction, Double fertilization.	4hrs	To explain the pollen morphology ,pollination and fertilization and also the pollen-pistil interaction.	Lecture and power point presentation.	Students given test on pollen pistil interaction.	Students learned the fertilization.pollination and Double fertilization.
Chapter-12 Seed –Structure appendages and dispersal mechanisms	3hrs	To explain the seed-structure	Power point presentation on smart board.	Students were asked to draw the structure of seed.	Students learned the seed structure and dispersal mechanism of seed.

Chapter-13 *Endosperm-Development* and types.Embryo development and types, Polyembryony and Apomixis-an outline.	3hrs	To explain the development of embryo,polyembryony and Apomixis.	Power point presentation on smart board	Students were asked to write assignment on polyembryony and Apomixis.	Students learned the development of endosperm .Polyembryony and Apomixis ,their importance.

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Teaching Lesson Plan (2024-25)

Subject: B.Sc Botany

Semester: IV

Class: B.Sc II Year

Name of the Faculty: Ruksana Nausheed

Topic/Unit/ Chapter	No. of Classes	Objectives	Teaching Aids Used	Assessment	Outcomes
Unit II **Chapter 6** **Mendelism** History,principles of inheritance, Chromosome theory of inheritance. Autosomes and sex chromosomes. Incomplete dominance and co-	6 hrs	• Explain Mendel's experiments and laws of inheritance. • Differentiate between autosomes and sex chromosomes. • Illustrate incomplete	• Punnett square charts • Animated videos of Mendel's pea plant experiments • Genetic trait cards for classroom activities	Recalling previous knowledge Question & Answer Sessions Group discussion among students Project to do Species and Genetic diversity	• Students will be able to predict inheritance patterns using Mendelian principles. • They will distinguish between different types of dominance and allele interactions. • They will understand the genetic basis of complex traits.

dominance. *Multiple* Alleles, Lethal alleles. Epistasis,Recessive and dominant traits,polygenic inheritance	3hrs	dominance, co-dominance, multiple alleles, lethal alleles, and epistasis. • Describe polygenic inheritance and its significance.	• Diagrams of chromosomes and gene interactions	Differentiating insitu and exsitu conservation Discussed the merits of values of Biodiversity	
Chapter 7				~~Assignment~~	• ~~Students will~~ construct gene maps based on recombination data. • They will analyze genetic crosses and interpret linkage results. • They will explain how sex-linked traits are inherited.
Linkage and Crossing over Recombination frequency:two-factor and three factor crosses.Interference and coincidence Numericals based on gene mapping Sex linkage	2hrs	• Define linkage and explain its genetic significance. • Calculate recombination frequencies using two- and three-factor crosses. • Understand interference and coincidence in gene mapping. • Explain sex-linked inheritance patterns.	• Gene mapping worksheets • Interactive simulations of crossing over • Colored beads or strings to model chromosomes • Graphs and charts for recombination data	Internal assessment	

Chapter 8 **Variations in chromosome number and structure** Deletion,Duplication,Inversion,Translocation,Position effect,Euploidy and aneuploidy.	3hrs	To explain chromosome variations • Identify structural changes in chromosomes: deletion, duplication, inversion, translocation. • Explain position effect and its consequences. • Differentiate between euploidy and aneuploidy.	• Chromosome models and karyotype charts • Case studies of chromosomal disorders (e.g., Down syndrome) • Animated videos showing chromosomal rearrangements.	Recalling previous knowledge Question and Answer session Internal assessment Practical sessions	• Students will recognize chromosomal abnormalities and their phenotypic effects. • They will differentiate between numerical and structural chromosomal changes. • They will relate chromosomal variations to genetic disorders.
Chapter 9 **Gene Mutations** Types of mutations: Molecular basis of	**3hrs**	• Define gene mutations and describe their molecular basis. • Classify types of mutations: substitution, insertion, deletion.	• DNA sequence cards for mutation exercises • Mutation simulation software • Charts showing effects of mutagens	Assignment Gene banks	• Students will explain how mutations alter genetic information. • They will identify different types of gene mutations.

mutations, Mutagens- Physical and chemical analog, alkylating and intercalating agents.		• Identify mutagens and their mechanisms of action. Different types of mutations	• Real-world examples (e.g., sickle cell anemia, antibiotic resistance)		• They will evaluate the role of mutagens in genetic variation and disease.

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[Affiliated to Osmania University] Accredited by NACC with 'A' Grade New Mallepally BSC/ BZC 2nd Year, 4th Semester, 2024-2025/Name of the Faculty: Nazneen Begum [**Cell Biology & Genetics**]

Topic/unit/chapter	Objective	Teaching Aid use	Assessment	Outcomes
1.Plant cell envelope ultra structure of cell wall,models of membrane str & function of semi permeable plasma membrane & fluid mosaic models	*Introduction of cell biology fluid mosaic model of the plasma membrane	Online tools		Students understand the mechanism of semi permeable plasma membrane & fluisd mosaic model
2.Cell organelles str & semiautonomous nature of mitochondria & chloroplast	*The study various forms of cell organelles	Lecture and discussion	Question and answers session	Students are able to understand the DNA str & types
3.Nucleus:ultra str types & function of DNA & Plastid DNA & Plasmids	*To study the structure of molecules	Online tools		
4.chromosomes morphology organs of DNA in a chr Euchromatin & hetero chromatin ,karyotypes spl types of chromosomes lampbrush & polytene	*To differentiate between Eu & hetero chromatin the students aim to study & understand spl types of chromosomes	Lecture and discussion		function of DNA & RNA Structure understand the Euchromatin and heterochromatin

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5.cell division cell & its regulation mitosis, meiosis & their significance UNIT-2ND	To study differentiate b/t mitosis & meiosis	Online tools	Question and answers sessions	Students understand the differentiate b/t mitosis & meiosis
6.Mendalisim history principle of inheritance chr theory of inheritance autosomes & sen chr in complete dominance multiple alleles ,lethal	To study brief history of mendel & significance of genetics	Lecture and discussion	Internal assessment Question and answers session	Apply knowledge in solving genetics problems
alleles,epistasis,recessive & dominant traits polygenic inheritance	To understand the concept of incomplete dominance & epistasis	Online tools		Students understand the concept of theories and types of linkage & crossing over
7.linkage & crossingover recombination frequency 2 factors & there factor cross gene mapping sen linkage	To study the concept theories and types of linkage Discussion of variation in chr number	Lecture and discussion		Understand the different types of chromosomes numbers
8.variation chr number & structure deletion duplication immersion translocation position effect	To enumerate types of mutation & types of mutation	Online tools		Students understand the concept of gene mutation
9.Gene mutation types of mutation molecular basis of mutation mutagenes physical and chemical mutagens	Explanation of types of mutagenes	Lecture and discussion		Learners acquires the concept of mutagens and type of mutagens

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[Affiliated to Osmania University] Accredited by NACC with 'A' Grade New Mallepally BSC/ BZC 2nd Year, 4th Semester, 2024-2025/Name of the Faculty: Nazneen Begum [**Anatomy-Embryology & palynology**]

S.no	Unit	Topic	Objective	Teaching aid use	Assessment	Outcomes
1. 2.	UNIT-1st 1.Anatomy	Types :histological Organisation of shoot & apices & theories	To explain the histological organisation	Lecture & discussion	Question & answers session	Students understand the concept histological organisation
	1*Meristems Tissues & tissue system	Simple & complex tissue		Online tools	Question & answers session	Students able to differentitate shoot & root
	LEAF: Diversity of internal structure	Ontogeny Stomata & epidermal outgrowth	To explain the simple & complex tissue	Lecture & discussion Online tools	Question & answers session Question & answers session	Students understand to the complex tissue

*	UNIT-2nd 2*stem & root *3General account stem & Root:- *Wood structure	Vascular cambium formation and function Anomalous secondary growth *A chyranthus boerhavia dracaena Beta General account study of local timbers *teak[tectona grand dis] -rose *wood[dalbergia latefdis] *red senders [pterocarpus santa tinus] *Nallamaddi terminalia tomentosa] *yegisa [petrocarpous marrupium] *Neem [azdiracbta indica]	To explain the secondary structure root tridax ,stem pongamia Microscopic study of wood in T.S,T.L.S &R.L.S To explain the secondary structure root tridax ,stem pongamia Microscopic study of wood in T.S,T.L.S &R.L.S	Lecture & discussion Online tools Lecture & discussion	Question & answers session Question & answers session	Students understand the concept of importyance of root & stem Students understand the general account of

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Teaching Lesson Plan (2024-25)

Subject: B.Sc Botany

Semester: V

Class: B.Sc III Year

Name of the Faculty: Ruksana Nausheed

Topic/Unit/ Chapter	No. of Classes	Objectives	Teaching Aids Used	Assessment	Outcomes
Unit I **Chapter 1** Plant diversity and its scope: Genetic diversity, species diversity. Plant diversity at the ecosystem level. Agrobiodiversity and cultivated plant taxa,wild taxa	6 hrs	**Understanding Plant Diversity** – Explain genetic, species, and ecosystem diversity, including agrobiodiversity. **Recognizing Biodiversity Values** – Discuss ethical, aesthetic, and practical uses of biodiversity, including plants and microbes. **Analyzing Biodiversity Loss** – Examine the causes and projected scenarios of biodiversity loss at genetic, species, and ecosystem levels.	• **Charts & Posters** – Illustrate plant diversity, conservation methods, and biodiversity hotspots. • **Infographics** – Summarize biodiversity loss, conservation strategies, and global biodiversity importance. • **PowerPoint Presentations** – Use slides with images, videos, and animations to explain concepts. • **Documentaries & Videos** – Show real-world	Recalling previous knowledge Question & Answer Sessions Group discussion among students Project to do Species and Genetic diversity Differentiating insitu and exsitu conservation	• **Define and classify** different levels of plant diversity. • **Evaluate the importance** of biodiversity in ecosystems and human life.

Chapter 2 Values and uses of biodiversity: Ethical and aesthetic values.Precautionary principle,methodology for valuation, Uses of plants and uses of microbes **Chapter 3** Hotspots of India,Endemism,Red data book and Biodiversity register.	3hrs 2hrs	**Managing Biodiversity** – Introduce organizations like IUCN, UNEP, UNESCO, WWF, and NBPGR and their conservation methodologies. **Exploring Biodiversity Hotspots** – Identify biodiversity hotspots in India, endemism, and conservation records like the Red Data Book.	examples of biodiversity conservation and threats.	Discussed the merits of values of Biodiversity Assignment Internal assessment	• **Identify biodiversity hotspots** and explain their significance.
Unit II **Chapter 4** Loss of Biodiversity: Loss of	**3hrs**			Recalling previous knowledge	

genetic diversity,loss *of species* diversity,loss of ecosystem diversity,loss of agrobiodiversity. Projected scenario for biodiversity loss.				Question and Answer session Internal assessment Practical sessions	
Chapter 5 Management of plant Biodiversity,organization associated with biodiversity,management methodology for execution-IUCN,UNEP, UNESCO,	**3hrs**	**Conserving Biodiversity** – Discuss conservation principles, including **in-situ** (national parks, sanctuaries) and **ex-situ** (gene banks, tissue culture).		Assignment Gene banks	• **Assess biodiversity loss** and its impact on ecosystems. • **Describe conservation strategies** and organizations involved in biodiversity management. • **Apply conservation principles** in real-world scenarios.

WWF,NBPGR **Chapter-6** Biodiversity legislation and conservation. Biodiversity information,management and communication		**Understanding Biodiversity Legislation** – *Explain* biodiversity laws, management strategies, and communication methods			• **Understand biodiversity laws** and their role in conservation.
Unit III **Chapter 7** Conservation of Genetic diversity,Species Diversity and Ecosystem diversity 8.Principles of conservation-insitu and	**6hrs**		• **Field Trips** – Visits to botanical gardens, sanctuaries, national parks, and biodiversity hotspots. • **Specimen Collection** – Encourage students to collect and classify plant samples. • **Bottle Biospheres** – Create small ecosystems in bottles to	Assignment on Principles of conservation	

exsitu conservation. Sacred grooves, Botanical gardens,biosphere reserves,sanctuaries,national parks(insitu) Tissue culture,gene/seed/pollen banks & cryopreservatio (exsitu) **9.**Global biodiversity and its importance.		**Exploring Global Biodiversity** – Highlight the importance of biodiversity at a global scale	demonstrate biodiversity. • **Gardening Projects** – Teach plant diversity by growing different species. • **Virtual Tours** – Explore biodiversity hotspots and conservation areas online. • **Interactive Websites** – Platforms like WWF's biodiversity toolkit provide engaging learning materials. • **Online Quizzes & Games** – Reinforce concepts through biodiversity-themed quizzes.	Cryopreservation assignment	
Unit-IV					• **Analyze the role of plants** in

Chapter-10 The role of plants in relation to human welfare,the importance of forestry and their utilization and commercial aspects. Avenue trees, ornamental plants of India. **Chapter-11** Alcoholic beverages through ages.Fruits and nuts.Important fruit crops and their commercial importance.	**6hrs**	**Connecting Plants to Human Welfare** – Explain forestry, avenue trees, ornamental plants, and their commercial significance. **Understanding Economic Uses of Plants** – Discuss alcoholic beverages, fruits, nuts, and their commercial importance.	• **Storytelling & Role-Playing** – Act out food chains, conservation efforts, and biodiversity loss scenarios. • **Music & Drama** – Songs and plays about endangered species and conservation. • **Art Projects** – Create dioramas, posters, and models of ecosystems.	Assesment Importance of fruits and nuts assignment.	human welfare and economic activities. **Recognize the commercial value** of forestry, fruits, nuts, and beverages

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BSC/ BZC 3rd year Semester 5th, 2024-2025/

Name of the Faculty: Nazneen Begum [Plant Anatomy & Embryology]

Topic/unit/chapter **Unit-I**	**Objectives**	**Teaching Aid use**	**Assessment**	**Outcomes**
6.General account:-study of local timbers *Teak,[tectona grandis] *Rose wood [dalkergia latefdia] *Red sanders [pterocarpus santa tinus] *nallamaddi terminalia tomentosa] *yegris a [ptero carpus marsupium] *neem [azadirachta indica]	Introduction of types of anatomy mristerm To explain the simple and complex tissue Understand the stomata and epidermal Explain the vascular cambium formation and function A chyranthus boerhavia ,dracaena beta	Online tools Lecture and discussion Online tools	Question and answers sessions Lecture and discussions	Students understand the role of plant anatomy Students understand the uses of simple and complex tissue Students are able to differentiate the vascular and cambium Students understand the uses chyranthus, boerhavia, dracaena beta

6.General account:-study of local timbers *Teak,[tectona grandis] *Rose wood [dalkergia latefdia] *Red sanders [pterocarpus santa tinus] *nallamaddi terminalia tomentosa] *yegris a [ptero carpus marsupium] *neem [azadirachta indica]	Understand the local of timbers teak,rose,red sanders,nalla--madi,yegris,& neem To study the woods,neems, yegris	Online tools Lecture and Discussion Online tools	Question & answers session Internal assessment Question & Answers session Internal asseessment	Students are able to understand the study of local timbers Learners acquires the knowledge of red senders,terminallia Students able to recognize the parts of the general account of timbers

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Teaching Lesson Plan (2024-25)

Subject: B.Sc Botany

Semester: VI

Class: B.Sc III Year

Name of the Faculty: Ruksana Nausheed

Topic/Unit/ Chapter	No. of Classes	Teaching aids used	Assessment	Outcomes
Unit I **Chapter 1** Tissue culture-Introduction,sterilization procedures,explants,culture media-composition and preparation,Nutrient and hormone requirements, micropropogation. **Chapter 2** Organ culture: Totipotency,v	6 hrs	Explain the basic concepts and applications of tissue culture. Understand sterilization procedures and the importance of aseptic techniques. Analyze the role of explants and the composition of culture media. Identify the nutrient and hormone requirements for plant growth.Evaluate the significance of micropropagation in agriculture and biotechnology. Define totipotency and its role in organ culture.	Recalling previous knowledge Question & Answer Sessions Group discussion among students Project to do micropropagation Differentiating organ culture and tissue culture	**Understand** the basic principles and historical development of tissue culture. **Demonstrate** knowledge of sterilization techniques and the selection and preparation of explants.**Explain** the composition and function of culture media including nutrients and hormones. **Explain** the composition and function of culture media including nutrients and hormones. **Apply** methods of micropropagation for large-scaleplant

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Teaching Lesson Plan (2024-25)

Subject: B.Sc Botany

Semester: VI

Class: B.Sc III Year

Name of the Faculty: Ruksana Nausheed

Topic/Unit/ Chapter	No. of Classes	Teaching aids used	Assessment	Outcomes
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egetative organs –root,shoot,leaf culture Reproductive organs-Anther,ovule, Embryo culture **Chapter 3** Callus culture and isolation and fusion of protoplast culture.	3hrs 2hrs	Differentiate between vegetative and reproductive organ cultures. Assess the applications of anther, ovule, and embryo culture in plant biotechnology. Understand the formation and maintenance of callus culture.Explain the process of protoplast isolation and fusion. Discuss the importance of protoplast culture in plant genetic engineering.	Discussed the merits and demerits of Biotechnology Assignment Internal assessment	multiplication.**Describe** totipotency and its implications in organ culture.**Differentiate** between various vegetative and reproductive organ cultures (e.g., root, shoot, anther, ovule).**Understand** the process of callus induction and protoplast isolation and fusion techniques.**Distinguish** between somatic and zygotic embryogenesis .
Chapter 4 Organogenesis :Embryogenesis(somatic & zygotic)	**3hrs**	Distinguish between somatic and zygotic embryogenesis. Identify the stages and significance of organogenesis in tissue culture.	Assignment on organogenesis	Describe organogenesis pathways
Unit II **Chapter 5**		Understand the methods to produce pathogen-free plants. Explain the role of tissue culture in	Recalling previous knowledge	**Assess** how tissue culture contributes to plant health and agricultural productivity

Applications of Tissue *culture:* production of pathogen free plants, stress resistant plants, somaclonal variants and synthetic seeds	**3hrs**	stress-resistant plant development. Recognize somaclonal variations and their importance in plant breeding. Discuss the concept and applications of synthetic seeds.	Question and Answer session Internal assessment Practical sessions	through the production of pathogen-free and stress-resistant plants.**Explain** the generation and significance of somaclonal variation and synthetic seeds.**Understand** polyploidy and its applications in plant breeding, and the importance of triploids in agriculture.
Chapter 6 Polyploidy and triploids, cryopreservation and Germplasm conservation Somatic hybrids and cybrids	**3hrs**	Describe polyploidy and its role in plant improvement.Explain cryopreservation techniques and their applications in germplasm conservation.Understand somatic hybridization and the role of cybrids in genetic research.	Assignment on somatic hybridization .	**Discuss** cryopreservation methods and strategies for conserving plant germplasm. **Describe** the creation and use of somatic hybrids and cybrids in genetic improvement.

Unit III **Chapter 7** Biotechnology : Introduction, history, scope and applications. 8. Ligases, Polymerases 9.Recombinant clones, Eukaryotic vectors (YAC) **10.** Gene construct, applications of rDNA technology.	**6hrs**	Define biotechnology and explore its history and scope. Identify key enzymes like ligases and polymerases in genetic engineering.Explain recombinant clones and the role of eukaryotic vectors such as YAC.Discuss gene construct and applications of rec Explain the construction of genomic and cDNA libraries. Understand colony hybridization and its role in molecular genetics. Discuss the principles and applications of polymerase chain reaction (PCR).	Assignment on PCR and cDNA libraries rDNA technology test PCR procedure and uses assignment	**Trace** the history, development, and broad applications of biotechnology.**Describe** the roles of important enzymes like ligases and polymerases in molecular biology.**Understand** the construction and use of recombinant clones and eukaryotic vectors (e.g., YACs). • **Analyze** the structure of gene constructs and explore applications of recombinant DNA technology in real-world contexts.
Unit-IV **Chapter-12** Gene libraries:	**6hrs**	Explain the construction of genomic and cDNA libraries.Understand colony hybridization and its role in molecular genetics.	Assesment	• **Construct** genomic and cDNA libraries and explain their relevance in gene

construction of genomic and *cDNA* libraries, Colony of hybridization, Polymerase chain reaction (PCR) and its applications. **Chapter-13** Methods of gene transfer-Agrobacterium mediated,Direct gene transfer by electroporation,Microinjection, Microprojectile bombardment, Reporter genes **Chapter-14**		Discuss the principles and applications of polymerase chain reaction (PCR). Compare Agrobacterium-mediated and direct gene transfer techniques. Explain methods like electroporation, microinjection, and microprojectile bombardment. Describe the importance of reporter genes in genetic experiments. Analyze the significance of transgenic crops in improving	Genetic experiments ,transfer of genes Assignment on transgenic plants	analysis. **Demonstrate** understanding of PCR and its wide-ranging applications in diagnostics and gene amplification. **Compare** various gene transfer methods including Agrobacterium-mediated and direct transfer techniques. **Identify** reporter genes and their use in confirming successful gene transfer. **Evaluate** the impact of transgenic crops on agriculture—covering pest and herbicide resistance, nutritional enhancements (e.g., Golden Rice), and quality traits (e.g., Flavr Savr tomato).

Applications of transgenics to improve crop productivity and quality traits.Pest-resistant transgenic crops (Bt-cotton & Bt-brinjal)herbicide resistant plants,Flavr-savr tomato and Golden rice.		productivity and quality. Explain the development and benefits of pest-resistant Bt-cotton and Bt-brinjal. Understand herbicide-resistant plants and genetically modified crops like Flavr-Savr tomato and Golden rice.	Herbicides	

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Teaching Lesson Plan (2024-2025)

Subject: Botany **Semester: VI**

Class: B.Sc (BZC) Final Yr **Name of the Faculty: Maleka Begum**

Topic/Unit/ Chapter	No. of Classes	Objectives	Teaching aids used	Assessment	Outcomes
Unit I Tissue Culture Callus Culture and Organ Culture **Unit II** Applications of Tissue Culture Induction of Hairy Roots and Cryopreservation	4 hrs 6 hrs	To propogate and Manipulate plant cells , Tissues and organs in a controlled Environment To produce genetically identical plants clones for Agriculture , Horticulture and Research Purposes To study cellular behavior , develop products and conduct experiments with high degree of precision Cryopreservation ensures that cells can be stored for	Lecture and Interaction Use of Black board Online tools , ppt and videos	Oral questions Recalling previous knowledge Internal assessment Questions & Answer Sessions Group Discussions Recalling previous knowledge	Students find that this process is not dependent on the seasons and can be done throughout the year Students learn that the tissue culture process helps to supply the consumer market with new subspecies and variety. People looking to cultivate challenging plants such as specific breeds of orchids finds more success with the

Unit III Biotechnology , rDNA Technology, Gene Cloning **Unit IV** Gene Libraries , Method of Gene Transfer & Applications of Transgenics	5 hrs	long durations without comprimising their integrity Seek to develop new techniques and tools for various applications including diagnostics thrrapeutics and environmental solutions . To study gene regulation and to obtain stable inheritance and expression of new characteristics To apply scientific and technological advancements for practical use , fostering innovation , economic development	Practical Demonstration of Equipments Use of Black board Ppt and videos Model and chart presentation Visit to laboratory of Research centre Lecture and Collaborative learning , Group discussion	Pictorial presentation PPT presentation Ask the students to gather the images, and if they can, have them come from specific environments. Students can also collect information regarding different types of lichens.	tissue culture process than traditional soil teach us about adapting this method to make plant free from viruses and diseases Facilitates genetic diversity of crops and livestock Increase production efficiency and profitibality To accomplish the applications , Biotechnologist must be able to extract , manipulate and analyze nucleic acids Learners perceived that this is cornerstone of genetic engineering and biotechnology allowing for study of gene function , gene therapies and the production of proteins like Insulin

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Teaching Lesson Plan (2024-25)

Subject: B.Sc Botany

Semester: VI

Class: B.Sc III Year

Name of the Faculty: Ruksana Nausheed

Topic/Unit/ Chapter	No. of Classes	Teaching aids used	Assessment	Outcomes
Unit I **Chapter 1** Tissue culture-Introduction,sterilization procedures,explants,culture media-composition and preparation,Nutrient and hormone requirements, micropropogation. **Chapter 2** Organ culture: Totipotency,v	6 hrs	Explain the basic concepts and applications of tissue culture. Understand sterilization procedures and the importance of aseptic techniques. Analyze the role of explants and the composition of culture media. Identify the nutrient and hormone requirements for plant growth.Evaluate the significance of micropropagation in agriculture and biotechnology. Define totipotency and its role in organ culture.	Recalling previous knowledge Question & Answer Sessions Group discussion among students Project to do micropropagation Differentiating organ culture and tissue culture	**Understand** the basic principles and historical development of tissue culture. **Demonstrate** knowledge of sterilization techniques and the selection and preparation of explants.**Explain** the composition and function of culture media including nutrients and hormones. **Explain** the composition and function of culture media including nutrients and hormones. **Apply** methods of micropropagation for large-scaleplant

egetative organs –*root,shoot,lea* f culture Reproductive organs-Anther,ovule, Embryo culture **Chapter 3** Callus culture and isolation and fusion of protoplast culture.	3hrs 2hrs	Differentiate between vegetative and reproductive organ cultures. Assess the applications of anther, ovule, and embryo culture in plant biotechnology. Understand the formation and maintenance of callus culture.Explain the process of protoplast isolation and fusion. Discuss the importance of protoplast culture in plant genetic engineering.	Discussed the merits and demerits of Biotechnology Assignment Internal assessment	multiplication.**Describe** totipotency and its implications in organ culture.**Differentiate** between various vegetative and reproductive organ cultures (e.g., root, shoot, anther, ovule).**Understand** the process of callus induction and protoplast isolation and fusion techniques.**Distinguish** between somatic and zygotic embryogenesis .
Chapter 4 Organogenesis :Embryogenesis(somatic & zygotic)	**3hrs**	Distinguish between somatic and zygotic embryogenesis. Identify the stages and significance of organogenesis in tissue culture.	Assignment on organogenesis	Describe organogenesis pathways
Unit II **Chapter 5**		Understand the methods to produce pathogen-free plants. Explain the role of tissue culture in	Recalling previous knowledge	**Assess** how tissue culture contributes to plant health and agricultural productivity

Applications of Tissue *culture:* production of pathogen free plants, stress resistant plants, somaclonal variants and synthetic seeds	**3hrs**	stress-resistant plant development. *Recognize* somaclonal variations and their importance in plant breeding. Discuss the concept and applications of synthetic seeds.	Question and Answer session Internal assessment Practical sessions	through the production of pathogen-free and stress-resistant plants.**Explain** the generation and significance of somaclonal variation and synthetic seeds.**Understand** polyploidy and its applications in plant breeding, and the importance of triploids in agriculture.
Chapter 6 Polyploidy and triploids, cryopreservation and Germplasm conservation Somatic hybrids and cybrids	**3hrs**	Describe polyploidy and its role in plant improvement.Explain cryopreservation techniques and their applications in germplasm conservation.Understand somatic hybridization and the role of cybrids in genetic research.	Assignment on somatic hybridization .	**Discuss** cryopreservation methods and strategies for conserving plant germplasm. **Describe** the creation and use of somatic hybrids and cybrids in genetic improvement.

Unit III **Chapter 7** Biotechnology : Introduction, history, scope and applications. **8.** Ligases, Polymerases **9.**Recombinant clones, Eukaryotic vectors (YAC) **10.** Gene construct, applications of rDNA technology.	**6hrs**	Define biotechnology and explore its history and scope. Identify key enzymes like ligases and polymerases in genetic engineering.Explain recombinant clones and the role of eukaryotic vectors such as YAC.Discuss gene construct and applications of rec Explain the construction of genomic and cDNA libraries. Understand colony hybridization and its role in molecular genetics. Discuss the principles and applications of polymerase chain reaction (PCR).	Assignment on PCR and cDNA libraries rDNA technology test PCR procedure and uses assignment	**Trace** the history, development, and broad applications of biotechnology.**Describe** the roles of important enzymes like ligases and polymerases in molecular biology.**Understand** the construction and use of recombinant clones and eukaryotic vectors (e.g., YACs). • **Analyze** the structure of gene constructs and explore applications of recombinant DNA technology in real-world contexts.
Unit-IV **Chapter-12** Gene libraries:	**6hrs**	Explain the construction of genomic and cDNA libraries.Understand colony hybridization and its role in molecular genetics.	Assesment	• **Construct** genomic and cDNA libraries and explain their relevance in gene

construction of genomic *and cDNA* libraries, Colony of hybridization, Polymerase chain reaction (PCR) and its applications. **Chapter-13** Methods of gene transfer-Agrobacterium mediated,Direct gene transfer by electroporation,Microinjection, Microprojectile bombardment, Reporter genes **Chapter-14**		Discuss the principles and applications of polymerase chain reaction (PCR). Compare Agrobacterium-mediated and direct gene transfer techniques. Explain methods like electroporation, microinjection, and microprojectile bombardment. Describe the importance of reporter genes in genetic experiments. Analyze the significance of transgenic crops in improving	Genetic experiments ,transfer of genes Assignment on transgenic plants	analysis. **Demonstrate** understanding of PCR and its wide-ranging applications in diagnostics and gene amplification. **Compare** various gene transfer methods including Agrobacterium-mediated and direct transfer techniques. **Identify** reporter genes and their use in confirming successful gene transfer. **Evaluate** the impact of transgenic crops on agriculture—covering pest and herbicide resistance, nutritional enhancements (e.g., Golden Rice), and quality traits (e.g., Flavr Savr tomato).

Applications of transgenics to improve crop productivity and quality traits.Pest-resistant transgenic crops (Bt-cotton & Bt-brinjal)herbicide resistant plants,Flavr-savr tomato and Golden rice.		productivity and quality. Explain the development and benefits of pest-resistant Bt-cotton and Bt-brinjal. Understand herbicide-resistant plants and genetically modified crops like Flavr-Savr tomato and Golden rice.	Herbicides	

Signature of the Lecturer

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ANWARUL ULOOM COLLEGE (AUTONOMOUS)
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Department of English

Teaching Lesson Plan (2024-2025)

Semester: I

Name of the Faculty: Mrs. Nilufer Afreen

Subject: English
Class: BBA/BCOM (GEN)

Topic/Unit/Chapter	No. of Classes (From	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit -I POETRY: In the Bazaars of Hyderabad – Sarojini Naidu PROSE: Mallika Srinivasan Word Roots Nouns Getting someone's attention and interrupting	01-07-2024 To 12-07-2024 14/07/2024 To 16/07/2024 18/07/2024 To 26/07/2024	Students will be able to identify the theme and message of the poem. A story self determination Grammar Vocabulary Self discipline	Audio /Visual Aids Techniques of reading poetry. Textbook Worksheet for assessment Textbook	Discuss language and tone of the poem Identify the poetic devices and Imagery. Oral questioning based on plot, characters, and theme. Whiteboard Worksheets for practice	Demonstrate understanding of the poem's content and structure. Show improved reading fluency and vocabulary comprehension. Use vocabulary confidently in speaking and writing. Strengthening their Vocabulary Grammar skills.
Unit – II Poem – Rudyard Kipling Prose : On Saying Please A. G. Gardiner Vocabulary Prefixes and suffixes Pronouns Giving Instructions and Seeking Clarifications Interpersonal skills	28/07/2024 To 02/08/2024 04/08/2024 To 07/08/2024 09/08/2024 To 12/08/2024 14/08/2024 To 17/08/2024	Poem Reading Importance of Please Grammar before and after use of words Speaking with clarity Interpersonal skills Road to success	Lecture method. Text Book, PPT Text Book, PPT Textbook Worksheet for assessment Worksheet for assessment Text Book, PPT	Question and Answers and MCQs Question and Answers and MCQs Questionnaire Method. Question and Answers and MCQs Exercises from text book.	Use varied vocabulary and correct sentence structures in speech. Paraphrase or summarize the poem in their own words. Recite the poem with correct rhythm, stress and intonation. Students are able to use new vocabulary and expressions learned from the text. Improve listening and speaking skills through story discussion and oral tasks. Able to explain the meaning of a word by adding suitable prefix and suffix Demonstrate accurate pronoun usage in both oral and written communication.
Unit – III The Road Not Taken – Robert Frost Poem : Seeing People Off - Max Beerbohm	20/08/2024 To 24/08/2024	Saying good bye to your loved ones	Audio /Visual Aids. Explanation	Exercises from text book.	Participate effectively in conversation, and group discussions. Displayed confidence and professionalism in communication. Handle conflicts and challenges calmly and constructively.

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Vocabulary : Homonyms, Homographs, Homophones Grammar: Adjectives Asking for and Giving Opinions Motivation Unit- IV Poem : The Human Season – John Keats Prose:Shyness My Shield –M.K. Gandhi Vocabulary – Collocation Grammar : Articles Agreeing and Disagreeing with Opinions Self – Analysis	26/08/2024 To 29/08/2024 01/09/2024 To 03/09/2024 06/09/2024 To 09/09/2024 12/09/2024 To 14/09/2024 16/09/2024 To 20/09/2024 22/09/2024 To 25/09/2024 27/09/2024 To 29/09/2024	Grammar Uses of adjectivss Giving useful suggestions Why self motivation is important Different nature of Different people All about Mahatma Gandhi Uses of Collacation Grammar Difference of opinion Self reflection	PPT , Explanation PPT, Work-Sheets Audio /Visual Aids Work-Sheets, Samples. Explanation Work-Sheets, Samples. Explanation and discussion Posters: Motivational quotes and affirmations to inspire students. PPT Audio /Visual Aids. (Story Narrated) Work-sheets	Group discussion Role play Group discussion Creative Writing Assessment (Write a paragraph on a personal life choice or decision) Question and Answers and MCQs Textbook exercises Textbook exercises Role play Real – life case studies Questions and answers Questioner (write a short paragraph or essay reflecting on shyness and personal traits.	Developed the ability to paraphrase or summarize the poem in their own words. Able to answer the comprehension questions confidently and correctly. Students are able distinguish between homonyms, homographs and homophones based on spelling, pronunciation and meaning Form and use comparative and superlative degrees of adjectives correctly. Able to use appropriate phrases and questions to ask for opinions clearly. Learned how motivation influences success and personal growth. Students are able to explain the central theme of the prose and able to identify and analyze the literary devices such as metaphor, personification and imagery. Understand the pros and cons of shyness in social situations. Enhance their vocabulary through memorization and practice of collocations.

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Department of English

Teaching Lesson Plan (2024-2025)

Subject: English **Semester: III**
Class:B.B.A & B.COM (COMP) **Name of the Faculty:Mrs.Nilufer Afreen**

Topic/Unit/Chapter	No. of Classes (From	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit -I **POETRY:** **O Captain!My Captain! By Walt Whiteman.**	09/06/2024 To 12/06/2024	One of his most well-know poems, mourns the death of Abraham Lincoln.	Audio /Visual Aids.	Discuss language and tone of the poem.	Appreciate and develop Cognative and emotional sense..
PROSE: **Mallika Srinivasan**	15/06/2024 To	She is an inspiration to all of us- it is because she followed her dreams.	Techniques of reading poetry.	Identify the poetic devices and Imagery.	Imparting important life skills and human value.
Pronunciation: **Monophthongs**	20/06/2024	Monophthongs is a vowel sound pronounced as a single.	Explanation	Discuss the narration of the story	Strengthening their Vocabulary Grammar skills.
Vocabulary: **Punctuation**	22/06/2024 To 26/06/2024	Punctuation marks provide visual cues to readers.	Lecture method	Question and Answers	Strengthening their Grammar skills.
Speaking :Role Play	28/06/2024 To	Role play is an activity based on learning technique,and is widely used especially in the context of language learning and teaching.	Individual reading by the students.	MCQs	Strengthening their Grammar skills
Writing:Note-Making	30/06/2024	The primary purpose of note taking is to encourage active learning and to prepare study materials for exams.	Text Book, PPT	Questionnaire Method.	Provide real-world scenarios to help students learn.Learn skills used in real – worls
UNIT-II **POETRY:** **The Solitary Reaper by William Wordsworth.**	03/07/2024 To 06/07/2024	Wordsworth laid stress on the importance of nature and the simple life.	Text Book	Exercises from text book.	situations(negotiation,debate,teamwork,cooperation)p rovide opportunities for critical observation.
PROSE: **How to live to be 200 by Stephen Leacock.**	08/07/2024 To 12/07/2024	It discusses how Leacock uses exaggeration and humor.	PPT	Exercises from text book.	The moral of the poem is one should complete one's responsibilities happily though you have problems.
PEONUNCIATION: **Diphthongs**	15/07/2024 To 18/07/2024	Diphthongs are combination of two vowel sounds within the same syllable.	Explanation	Group discussion	The lesson highlight the importance of living a balanced life,enjoying the present moment,and not taking life too seriously.
GRAMMAR: **Subject-Verb Agreement**	22/07/2024 To 26/07/2024	Understanding subject-verb agreement is crucial for students because it helps ensure that sentences are grammatically correct.	Explanation	Exercises	By mastering diphthongs can benefit students in
SPEAKING: **Monologues**		The objective of a monologue performance may include developing acting skills.			

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WRITING: **Paragraph Expansion**	29/07/2024 To 03/08/2024	When students expand paragraphs, their objectives often includes adding more detail,examples,and explanation to strengthen their writing.	PPT	Discussed real life scenarios with students to connect with the lesson.	various ways.Students can improve their pronunciation skills,making thir speech clearer and more accurate.
UNIT-3 **POETRY:La Belle Dame Sans Merci by John Keats.** **A brief description of the poet**	05/08/2024 To 08/08/2024	"La Belle Dame Sans Merci" is a captivating poem by John Keats that tells the story of a knight who encounters a beautiful and mysterious woman in a dream-like setting.	PPT,Work-Sheets	Explained the importance of life and asked them to make a note on life.(Reflect on their past and present situations.)	Students can write and speak more clearly and effectively.It helps them convey their ideas accurately and avoid grammar mistakes.
PROSE: **Ilyas by Leo Tolstoy** **A brief introduction of the poet,renowed Russian writer known for works like "war and peace".**	10/08/2024 To 13/08/02024	Ilyas narrates the story of a man who experienced both affluence and abject poverty.	Audio /Visual Aids.	Provided sentences or short passages with diphthongs for students to read aloud,focusing on correct pronunciation.	mproves acting skills,increased confidence in public speaking,enhanced understanding of character development,and the ability to captivat and audience.
PRONUNCIATION: **Consonant Sounds**	15/08/2024 To 18/08/2024	Consonant sound are speech sounds produced by obstructing or restricting airflow in the vocal tract.	Work-Sheets,Samples.	Provided the material to deeply understand verb agreement.	Enhanced writing skills,the ability to develop ideas in depth,improved critical thinking abilities.
VOCABULARY: **Cliches**	20/08/2024 To 22/08/2024	A cliché is like a phrase or idea that's overused and not very original.	Explanation	Teachers may evaluate students based on their ability to stay in character,deliver lines appropriate emotions,maintain good pacing and articulation.	
SPEAKING: **Story Narration**	24/08/2024 To 26/08/2024	Narration means the art of storytelling, and the purpose of narrative writing is to tell stories.	Explanation and discussio		
WRITING: **Notices & Circulars**	28/08/2024 To 30/08/2024	Circulars and notices are both forms of written communication that are used to disseminate information or instructions.	Work-sheets for grammar consonant words	Students understands the depth of paragraph writing.Ans the overall impact on the clarity and persuasiveness of the writing.	

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Department of English

Semester: I

Name of the Faculty:Neha Mohammadi

Subject: English
Class:B.SC & B.COM (GEN)

Topic/Unit/Chapter	No. of Classes (From	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit -I POETRY: In the Bazaars of Hyderabad – Sarojini Naidu	**01-07-2025 To 12-07-2025**	Students will be able to identify the theme and message of the poem.	Audio /Visual Aids	Discuss language and tone of the poem.	Demonstrate understanding of the poem's content and structure.
PROSE: Mallika Srinivasan	**16/07/2024 To 18/07/2024**	A story self determination	Techniques of reading poetry.	Identify the poetic devices and Imagery.	Show improved reading fluency and vocabulary comprehension.
Word Roots		Grammar Vocabulary	Textbook Worksheet for assessment	Oral questioning based on plot, characters, and theme.	Use vocabulary confidently in speaking and writing.
Nouns	**20/07/2024 To 23/07/2024**	Self discipline	Textbook	Whiteboard Worksheets for practice	Strengthening their Vocabulary Grammar skills
Getting someone's attention and interrupting		Poem Reading		Question and Answers and MCQs	Use varied vocabulary and correct sentence structures in speech.
Unit – II **Poem – Rudyard Kipling**	**25/07/2024 To 28/07/2024**	Importance of Please	Lecture method.	Question and Answers and MCQs	Paraphrase or summarize the poem in their own words. Recite the poem with correct rhythm, stress and intonation.
Prose : On Saving Please **A. G. Gardiner**	**03/08/2024 To 06/08/2024**	Grammar before and after use of words	Text Book, PPT	Questionnaire Method.	Students are able to use new vocabulary and expressions learned from the text. Improve listening and speaking skills through story discussion and oral tasks.
Vocabulary **Prefixes and suffixes**		Speaking with clarity	Text Book, PPT	Question and Answers and MCQs	Able to explain the meaning of a word by adding suitable prefix and suffix
Pronouns	**10/08/2024 To 13/08/2024**	Interpersonal skills	Textbook Worksheet for assessment	Exercises from text book.	Demonstrate accurate pronoun usage in both oral and written communication.
Giving Instructions and Seeking Clarifications		Road to success	Worksheet for assessment Text Book, PPT	Exercises from text book.	Participate effectively in conversation, and group discussions.
Interpersonal skills	**15/08/2024 To 18/08/2024**	Saying good bye to your loved ones	Audio /Visual Aids.	Group discussion	Displayed confidence and professionalism in communication. Handle conflicts and challenges calmly and constructively.
Unit – III **The Road Not Taken – Robert Frost**	**21/08/2024 To 24/08/2024**	Grammar	Explanation		Developed the ability to paraphrase or summarize the poem in their own words.
Poem : Seeing People Off - Max Beerbohm		Uses of adjectivss			
Vocabulary : Homonyms, Homographs, Homophones	**25/08/2024 To**	Giving useful suggestions			

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Grammar: Adjectives	28/08/2024		PPT Explanation	Role play Group discussion	Able to answer the comprehension questions confidently and correctly.
Asking for and Giving Opinions	02/09/2024 To 05/09/2024	Why self motivation is important Different nature of Different people	PPT, Work-Sheets	Creative Writing Assessment (Write a paragraph on a personal life choice or decision)	Students are able distinguish between homonyms, homographs and homophones based on spelling, pronunciation and meaning
Motivation Unit- IV Poem : The Human Season – John Keats	07/09/2024 To 10/09/2024	All about Mahatma Gandhi	Audio /Visual Aids Work-Sheets, Samples. Explanation Work-Sheets, Samples.	Question and Answers and MCQs Textbook exercises	Form and use comparative and superlative degrees of adjectives correctly.
Prose:Shyness My Shield –M.K. Gandhi	13/09/2024 To 15/09/2024	Uses of Collacation Grammar	Explanation and discussion	Textbook exercises	Able to use appropriate phrases and questions to ask for opinions clearly.
Vocabulary – Collocation	17/09/2024 To 21/09/2024	Difference of opinion	Posters: Motivational quotes and affirmations to inspire students.	Role play	Learned how motivation influences success and personal growth.
Grammar : Articles			PPT	Real – life case studies	Students are able to explain the central theme of the prose and able to identify and analyze the literary devices such as metaphor, personification and imagery.
Agreeing and Disagreeing with Opinions	23/09/2024 To 25/09/2024	Self reflection	Audio /Visual Aids. (Story Narrated)	Questions and answers	Understand the pros and cons of shyness in social situations
Self – Analysis	26/09/2024 To 30/09/2024		Work-sheets	Questioner (write a short paragraph or essay reflecting on shyness and personal traits.	Enhance their vocabulary through memorization and practice of collocations.

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Teaching Lesson Plan (2024-2025)

Semester: II

Subject: English
Class:B.sc &B.Com (Gen /Comp)

Name of the Faculty:Mrs.Mohammadi

Topic/Unit/Chapter	No. of Classes (From ---- --- to------)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit – V The Felling of Banyan Tree Dilip Chitre	01/10/2024 To 04/10/2024	To Enhance Language Skills To develop critical thinking	Audio / Visual aids	MCQs, Fill in the blanks and short questions	Improved Language and literacy skills Enhanced critical thinking
Prose: The Bet Anton Chekhov	05/10/2024 To 06/10/2024	To enable students to use grammar rules to communicate their ideas clearly.	Textbooks and course materials.	Question and answers	Students gain a broader understating of different cultures
Vocabulary – Oxymoron and Hyperbole		To teach students how to construct sentences that are clear, concise and precise	Flash card Word puzzles	Worksheets	Cultivate a lifelong love of literature Improved reading and comprehension Skills.
Grammar: Main Verbs and Tenses	07/10/2024 To 10/10/2024	To develop writing skills	Visual aids, grammar books and workbooks	Worksheets	Teaching prose encourages critical thinking as students analyze the content
Speaking : paragraph writing and essentials		To Enhance Language Skills	Whiteboards and Markers .	MCQs, Fill in the blanks and short questions	Improved reading comprehension Enhanced writing skills
Unit – VI Poetry: A Walk by Moonlight By- Henry Derozio	12/10/2024 To 14/10/2024	To develop critical thinking To expose student to differed cultures	Audio / Visual aids	Audio / Visual aids	Increased reading enjoyment. Enhanced listening skills.
Prose: How the Coronavirus Sparked a Wave of Innovation in India By : Sreevas Sahasranamam	15/10/2024 To 17/10/2024	To enable students to understand and interpret various types of prose including fiction, non fiction	Textbooks and course materials. Discussion and Debate		Improved writing skills. Enhanced reading comprehension
Vocabulary – Loan words	18/10/2024 To 23/10/2024	To foster critical thinking skills. To improve students' language skills, including LSRW. To enrich vocabulary	Flash card Word puzzles	Worksheets	Enhanced writing proficiency. Enhanced research skills
Grammar: Auxiliary Verbs		To enable students to use grammar rules to communicate their ideas clearly.	Discussion and Debate	Worksheets	Improved reading and comprehension Skills. Teaching prose encourages critical thinking as students analyze the content
Sequencing		To teach students how to construct sentences that are clear, concise and precise	Flash card Word puzzles	MCQs	Teaching prose encourages critical thinking as students analyze the content

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Holistic health		Teach individuals to take an active role in their health by making informed choices.	Word puzzles	Worksheets	Contributed to the healthy habits and overall well being.
Unit – VII **Poetry: A Different History**	25/10/2024 To 27/10/2024	To Enhance Language Skills.To develop critical thinking.	Visual aids, grammar books	Question and answers	Increased reading enjoyment. Enhanced listening skills.
Prose: Noble Lecture, 7 December 1993 (extract) **Toni Morrison**	28/10/2024 To 30/10/2024	To enable students to understand and interpret various types of prose including fiction, non fiction	workbooks	MCQ'S	Improved writing skills. Enhanced reading comprehension
Prose: Noble Lecture, 7 December 1993 (extract) **Toni Morrison**		To enable students to understand and interpret various types of prose including fiction, non fiction	Audio / Visual aids	Debate & Discussion	Students learned to organized their narratives, essays, or instructions logically..
Vocabulary – Portmanteau Words		To enrich vocabulary	Worksheets	Notes	Helps students understand and organize material
Grammar: Non Finite Verbs	12/11/2024 To 18/11/2024	To teach students how to construct sentences that are clear, concise and precise	Course Material	Questionnaire Method.	Questionnaire Method.
Descriptive Writing		To encourage individuals to see conflicts from others' viewpoints.	Textbooks	Worksheets	The sentensearound them may be past,present or future tense.the non-finite verbs themselves are neutral.
Unit – VIII **Poem: Lady Macbeth's Speech from Machbeth Act I, scene 5** **William Shakespeare**	21/11/2025 To 24/11/2025	To Enhance Language Skills.To develop critical thinking	Flash Cards	Debate & Discussion	Students gain a broader understating of different cultures
Prose:	26/11/2025 To 29/11/2025	To improve students' language skills, including LSRW.	Word puzzles Visual aids.	Question and answers Worksheets	Increased reading enjoyment. Enhanced listening skills.
How I Became a Public Speaker (Abridged) **G. B. Shaw**		To enrich vocabulary	grammar books and workbooks	Worksheets	Learned correct sentence structure.
Vocabulary – Simile and Metaphor	03/01/2025 To 06/01/2025	To enable students to use grammar rules to communicate their ideas clearly.	White board and marker	Interactive debates	Increased creativity: Students can experiment with various writing styles, tones and techniques to convey their messages.
Grammar: Adverbs	10/01/2025 To 15/01/2025	To teach students how to construct sentences that are clear, concise and precise			
Argumentative essay:					

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Teaching Lesson Plan (2024-2025)

Subject: English **Semester: III**
Class:B..SC & B.COM (GEN) **Name of the Faculty :Neha Mohammadi**

Topic/Unit/Chapter	No. of Classes (From	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit -I **POETRY:** **O Captain!My Captain! By Walt Whiteman.**	08/06/2024 To 11/06/2024	One of his most well-know poems. mourns the death of Abraham Lincoln.	Audio /Visual Aids.	Discuss language and tone of the poem.	Appreciate and develop Cognative and emotional sense..
PROSE: **Mallika Srinivasan**	15/06/2024 To	She is an inspiration to all of us- it is because she followed her dreams.	Techniques of reading poetry.	Identify the poetic devices and Imagery	Imparting important life skills and human value.
Pronunciation: **Monophthongs**	19/06/2024	Monophthongs is a vowel sound pronounced as a single.	Explanation	Discuss the narration of the story	Strengthening their Vocabulary Grammar skills.
Vocabulary: **Punctuation**	22/06/2024 To	Punctuation marks provide visual cues to readers.	Lecture method	Question and Answers	Strengthening their Grammar skills.
Speaking :Role Play	27/06/2024	Role play is an activity based on learning technique,and is widely used especially in the context of language learning and teaching.	Individual reading by the students.	MCQs	Strengthening their Grammar skills
Writing:Note-Making	30/06/2024 To 02/07/2024	The primary purpose of note taking is to encourage active learning and to prepare study materials for exams.	Text Book, PPT	Questionnaire Method	Provide real-world scenarios to help students learn.Learn skills used in real – worls situations(negotiation,debate,teamwork,cooperation)p rovide opportunities for critical observation.
UNIT-II **POETRY:** **The Solitary Reaper by William Wordsworth.**	04/07/2024 To	Wordsworth laid stress on the importance of nature and the simple life.	Text Book	Exercises from text book.	
PROSE: **How to live to be 200 by Stephen Leacock.**	07/07/2024	It discusses how Leacock uses exaggeration and humor.	PPT	Exercises from text book.	The moral of the poem is one should complete one's responsibilities happily though you have problems.
PEONUNCIATION: **Diphthongs**	10/07/2024 To 13/07/2024	Diphthongs are combination of two vowel sounds within the same syllable.	Explanation	Group discussion	
GRAMMAR: **Subject-Verb Agreement**	15/07/2024 To	Understanding subject-verb agreement is crucial for students because it helps ensure that sentences are grammatically correct.	Explanation		The lesson highlight the importance of living a balanced life,enjoying the present moment,and not taking life too seriously.
SPEAKING: **Monologues**	18/07/2024	The objective of a monologue performance may include developing acting skills.		Exercises	By mastering diphthongs can benefit students in

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WRITING: **Paragraph Expansion** **UNIT-3** **POETRY:La Belle Dame Sans Merci by John Keats.** **A brief description of the poet** **PROSE:** **Ilyas by Leo Tolstoy** **A brief introduction of the poet,renowed Russian writer known for works like "war and peace".** **PRONUNCIATION:** **Consonant Sounds** **VOCABULARY:** **Cliches** **SPEAKING:** **Story Narration** **WRITING:** **Notices & Circulars**	22/07/2024 To 26/07/2024 29/07/2024 To 03/08/2024 06/08/2024 To 08/08/2024 12/08/2024 To 14/08/02024 16/08/2024 To 18/08/2024 22/08/2024 To 23/08/2024 26/08/2024 To 28/08/2024 03/09/2024 To 06//09/2024	When students expand paragraphs, their objectives often includes adding more detail,examples,and explanation to strengthen their writing. "La Belle Dame Sans Merci" is a captivating poem by John Keats that tells the story of a knight who encounters a beautiful and mysterious woman in a dream-like setting. Ilyas narrates the story of a man who experienced both affluence and abject poverty. Consonant sound are speech sounds produced by obstructing or restricting airflow in the vocal tract. A cliché is like a phrase or idea that's overused and not very original. Narration means the art of storytelling, and the purpose of narrative writing is to tell stories. Circulars and notices are both forms of written communication that are used to disseminate information or instructions.	PPT PPT,Work-Sheets Audio /Visual Aids. Work-Sheets,Samples Explanation Explanation and discussio Work-sheets for grammar consonant words	Discussed real life scenarios with students to connect with the lesson. Explained the importance of life and asked them to make a note on life. Provided sentences or short passages with diphthongs . Provided the material to deeply understand verb agreement. Teachers may evaluate students based on their ability to stay in character, Students understands the depth of paragraph writing.	various ways Students can improve their pronunciation skills,making thir speech clearer and more accurate Students can write and speak more clearly and effectively.It helps them convey their ideas accurately and avoid grammar mistakes. mproves acting skills,increased confidence in public speaking,enhanced understanding of character development,and the ability to captivat and audience. Enhanced writing skills,the ability to develop ideas in depth,improved critical thinking abilities.

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Department of English

Teaching lesson plan-(2024-2025)

Subject: English
Class:UG – B.B.A & B.COM (COMP)

Semester: IV
Name of the Faculty:Mrs.Nilufer Afreen

Topic/Unit/Chapter	No. of Classes (From ------- to----- -)	Objectives	Teaching Aid Used	Assessment	Outcomes
POEM :Ozymandias by Percy Bysshe Shelley **PROSE: The Lottery Ticket by Anton Chekhov** **PRONUNCIATION:Consonant Clusters.** **VOCABULARY:Idioms** **GRAMMAR:Degree of Comparison** **SPEAKING:Just a Minute** **WRITING:Memo Writing** **UNIT:5POETRY:The Last Duches by Robert Browning.** **PROSE:The Doll's House by Katherine Mansfield.** **PRONUNCIATION:Plural Endings** **VOCABULARY:Phrasal Verbs** **GRAMMAR:Reported Speech** **SPEAKING:Directions**	20/11/2024 To 23/11/2024 26/11/2024 To 30/11/2024 02/12/2024 To 05/12/2024 08/12/2024 To 12/12/2024 16/12/2024 To 20/12/2024 25/12/2024 To 29/12/2024 03/01/2025 To 08/01/2025	The poem "ozymandias is about the attitude of the king. To Understand the poem and the message it contains. Consonants are letters that represent certain speech sounds. An idiom is a widely used saying or expression "The listing of the positive, comparative, and superlative forms of an adjective or adverb. It helps student to face their stage fear. Memos are designed for official internal communications of a business or organization The entire poetry is a speech uttered by the Duke of ferrara to the envoy of a count whose daughter he desires to marry. The Doll's House vividly captures the interactions between a few girls from different social groups. The plural forms of English words usually end in in-s,-es,or-ies.These plural endings usually follow fixed pronunciation patterns. Phrasal Verbs are combination of a verb and a particle that,together ,give you a single ,independent	Techniques of reading poem Lecture and explanation PPT Individual reading by the students. PPT Learning by doing Exercise given in the Textbook Work- sheets ,for clear understanding. Explained students the tips and tricks of speaking for a minute without interrupting.	Summary MCQs short question assessment. Text book exercises. Write examples of Idioms. Asks students to write the examples of different degree of comparison. Asked students to prepare 1 minute speech of their own choice. MCQ, Fill up the blanks, rhyming words, identify the poetic devices.	Encouraging the students to think creatively. Listen with concentration and speak with confidence. Classify, analyze and interpret the main idea or theme to enable the students to understand their responsibility. Students understood the Consonants . Strengthening their Grammar skill Students are able to make a sentence. Students are able to stand confidently in front of whole class. Students understood the concept of memo writing. Appreciation and understanding of the poetry Students are able to understand about the prose ' The Doll's House' Students are able to use correctly Singular and Plural Students are able to use correct Determiners.

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WRITING: **Paragraph Expansion** **UNIT-3** **POETRY:La Belle Dame Sans Merci by John Keats.** **A brief description of the poet** **PROSE:** **Ilyas by Leo Tolstoy** **A brief introduction of the poet.renowed Russian writer known for works like "war and peace".** **PRONUNCIATION:** **Consonant Sounds** **VOCABULARY:** **Cliches** **SPEAKING:** **Story Narration** **WRITING:** **Notices & Circulars**	22/07/2024 To 26/07/2024 29/07/2024 To 03/08/2024 06/08/2024 To 08/08/2024 12/08/2024 To 14/08/02024 16/08/2024 To 18/08/2024 22/08/2024 To 23/08/2024 26/08/2024 To 28/08/2024 03/09/2024 To 06/09/2024	When students expand paragraphs, their objectives often includes adding more detail,examples and explanation to strengthen their writing. "La Belle Dame Sans Merci" is a captivating poem by John Keats that tells the story of a knight who encounters a beautiful and mysterious woman in a dream-like setting. Ilyas narrates the story of a man who experienced both affluence and abject poverty. Consonant sound are speech sounds produced by obstructing or restricting airflow in the vocal tract. A cliché is like a phrase or idea that's overused and not very original. Narration means the art of storytelling, and the purpose of narrative writing is to tell stories. Circulars and notices are both forms of written communication that are used to disseminate information or instructions.	PPT PPT,Work-Sheets Audio /Visual Aids. Work-Sheets,Samples. Explanation Explanation and discussio Work-sheets for grammar consonant words	Discussed real life scenarios with students to connect with the lesson. Explained the importance of life and asked them to make a note on life. Provided sentences or short passages with diphthongs . Provided the material to deeply understand verb agreement. Teachers may evaluate students based on their ability to stay in character. Students understands the depth of paragraph writing.	various ways.Students can improve their pronunciation skills,making thir speech clearer and more accurate. Students can write and speak more clearly and effectively.It helps them convey their ideas accurately and avoid grammar mistakes. mproves acting skills,increased confidence in public speaking,enhanced understanding of character development,and the ability to captivat and audience. Enhanced writing skills,the ability to develop ideas in depth,improved critical thinking abilities.

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Department of English

Teaching lesson plan-(2024-2025)

Subject: English **Semester: IV**

Class:UG – B.SC &B.COM (GEN) **Name of the Faculty:Neha Mohammadi**

Topic/Unit/Chapter	No. of Classes (From ------- to----- -)	Objectives	Teaching Aid Used	Assessment	Outcomes
POEM :Ozymandias by Percy Bysshe Shelley PROSE: The Lottery Ticket by Anton Chekhov PRONUNCIATION:Consonant Clusters. VOCABULARY:Idioms. GRAMMAR:Degree of Comparison SPEAKING:Just a Minute WRITING:Memo Writing UNIT:5POETRY:The Last Duches by Robert Browning. PROSE:The Doll's House by Katherine Mansfield. PRONUNCIATION:Plural Endings VOCABULARY:Phrasal Verbs GRAMMAR:Reported Speech SPEAKING:Directions	22/11/2024 To 24/11/2024 26/11/2024 To 29/11/2024 03/12/2024 To 06/12/2024 09/12/2024 To 14/12/2024 18/12/2024 To 22/12/2024 27/12/2024 To 30/12/2024 04/01/2025 To 08/01/2025	The poem "ozymandias is about the attitude of the king. To Understand the poem and the message it contains. Consonants are letters that represent certain speech sounds. An idiom is a widely used saying or expression . "The listing of the positive, comparative, and superlative forms of an adjective or adverb. It helps student to face their stage fear. Memos are designed for official internal communications of a business or organization The entire poetry is a speech uttered by the Duke of ferrara to the envoy of a count whose daughter he desires to marry. The Doll's House vividly captures the interactions between a few girls from different social groups. The plural forms of English words usually end in in-s,-es,or-ies.These plural endings usually follow fixed pronunciation patterns. Phrasal Verbs are combination of a verb and a particle that,together ,give you a single ,independent	Techniques of reading poem Lecture and explanation PPT Individual reading by the students. PPT Learning by doing Exercise given in the Textbook Work- sheets ,for clear understanding. Explained students the tips and tricks of speaking for a minute without interrupting.	Summary MCQs short question assessment. Text book exercises. Write examples of Idioms. Asks students to write the examples of different degree of comparison. Asked students to prepare 1 minute speech of their own choice. MCQ, Fill up the blanks, rhyming words. identify the poetic devices.	Encouraging the students to think creatively. Listen with concentration and speak with confidence. Classify, analyze and interpret the main idea or theme to enable the students to understand their responsibility. Students understood the Consonants . Strengthening their Grammar skill Students are able to make a sentence. Students are able to stand confidently in front of whole class. Students understood the concept of memo writing. Appreciation and understanding of the poetry Students are able to understand about the prose ' The Doll's House' Students are able to use correctly Singular and Plural Students are able to use correct Determiners.

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WRITING:Precis Writing **POETRY :"Hope" is the Thing with Feathers" by Emily Dickinson** **PROSE:Packing by Jerome K. Jerome** **PRONUNCIATION:Past Tense Ending** **VOCABULARY:Teachnical Vocabulary for Everyday Conservations.** **GRAMMAR:Voice** **SPEAKING:Picture Description** **WRITING:Information Transfer**	15/01/2025 To 18/01/2025 22/01/2025 To 25/01/2025 03/02/2025 To 06/02/2025 09/02/2025 To 12/02/2025 11/02/2025 To 15/02/2025 To 18/02/2025 21/02/2025 To 25/02/2025	unit of meaning. A précis is a shortened version of a letter,a passage ,a report,an article,a chapter,or a book written in one's own words The poetry is about the power of hope,visualized metaphorically as a small bird that sings an uplifting song which keeps us going even in the worst of times. It is the story of three young men who take a boating holiday on the river Thames,accompanied by their unruly dog montmorency The past tense forms of regular English words end in –ed,-d, or-ied.These past tense endings follow fixed pronunciation patterns. There are many words from fields of science and technology that are used in multiple senses in everyday communication in English. A verb in a sentence is in the active voice when it expresses an action done.Active voice and Passive Voice Picture description involves writing a narrative or a descriptive passage inspired by a picture. Information can be represented either in words or through graphics such as maps,blueprints,tables,bar graph,diagram,flow charts etc.	PPT Techniques of reading poetry Individual reading by the students. PPT,Sheets Text book and PPT. Work-sheets,samples Samples Dialogue box given for deeper understanding.	Exercises. Students are able to understand the Reported Speech. Exercise from textbook. Different exercise given in textbook Write a poetry based on the same topic Student relates with their real life incidents of travelling and packing. Different exercises given in text-book Exercise given in textbook. MCQs Fill up the blanks and short questions.	Students prepared different Reported speech Students are able to give and understand the directions. Students are able to write precisely. Student understood the explanation. Student understood the explanation. Students are able to differentiate past tense and present tense. Students are able to communicate effectively. Strengthening their Grammar skills.

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Department of English
Teaching Lesson Plan-(2024-2025)

Semester: V

Subject: English

Name of the Faculty:Shaik Sameena Begum

Class: B.COM(COMP/GEN)

Topic/Unit/Chapter	No. of Classes (From ------ to------)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit –I POEM :- ECOLOGY BY A.K. RAMANUJAN	09/06/2024 To 12/06/2024	'Ecology 'Enables to understand poetry & promotes awareness of the environment..	Individual reading by students.	Identify the key ideas and terms..	Students relate the poem to the real life.
PROSE:- WHAT'S THE LANGUAGE OF THE FUTURE? BY HENRY HITCHINGS	15/06/2024 To 20/06/2024	The lesson promotes To understand the importance of future language.	Individual reading by the students	spoken and written text	The extract enables the students comprehend, interrogate and redefine multi-faced aspects of English Language.
VOCABULARY:- Indianism in English	22/06/2024 To 26/06/2024	Students will able to learn about the Indianism in English, American list of words, and their equivalent words in Global English World.	Text book and PPT	Exercises	Strengthening their vocabulary skills.
GRAMMAR :- Framing questions (including Tag questions)	28/06/2024 To 30/06/2024	Students will be able to frame questions. To Understand the poem 'Girl'.	Exercises Techniques of reading poetry	Formulate questions and critical responses regarding themes. Self-Awareness	Students learned how to frame questions. The student explore themes of sexual reputation domesticity and the complexity of a mother /daughter relationship
UNIT –II PROSE POEM :GIRL BY JAMAICA KINCAID	03/07/2024 To 06/07/2024	To Understand the Prose 'Gender equality is your issue too'.	Lecture Method	Text book exercises	Students will be able analyze and interpret clearly about gender equality
PROSE :GENDER EQUALITY IS YOUR ISSUE TOO BY EMMA WATSON	08/07/2024 To 12/07/2024	Verbal analogy can help thinking critically & logically	Practicing the Analogy and odd word out	Frame questions on Tag question.	Strengthening their vocabulary skills.
VOCABULARY: ANALOGY AND ODD WORD OUT	15/07/2024 To 18/07/2024	Students will able to learn about the Regular and irregular verbs , Transitive and Intransitive verbs	PPT	Short questions and answers.	Students learned Regular and irregular verbs , Transitive and Intransitive verbs
GRAMMAR: VERBS Regular and irregular verbs , Transitive and Intransitive verbs	22/07/2024 To 26/07/2024	Students will be able to critique and analyze work of film and book review.	Lecture Method		Students able to communicate both orally and verbally about film genres, Themes and characters.
Unit-III REVIEW WRITING: FILM REVIEW, BOOK REVIEW	29/07/2024 To 03/08/2024	Students will able to learn about the Technical vocabulary (Film, literature)_ Film	Text Book	Write a review of a film you enjoyed. .Review a book of fiction	Strengthening their vocabulary skills.
VOCABULARY:- Technical vocabulary					

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Department of English
Teaching Lesson Plan-(2024-2025)

Semester: V

Subject: English
Name of the Faculty:Amtul Bari
Class: B.COM(COMP/GEN)

Topic/Unit/Chapter	No. of Classes (From ------ to------)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit –I POEM :- ECOLOGY BY A.K. RAMANUJAN	08/06/2024 To 10/06/2024	'Ecology 'Enables to understand poetry & promotes awareness of the environment..	Individual reading by students.	Identify the key ideas and terms..	Students relate the poem to the real life.
PROSE:- WHAT'S THE LANGUAGE OF THE FUTURE? BY HENRY HITCHINGS	12/06/2024 To 15/06/2024	The lesson promotes To understand the importance of future language.	Individual reading by the students	spoken and written text.	The extract enables the students comprehend, interrogate and redefine multi-faced aspects of English Language.
VOCABULARY:- Indianism in English	18/06/2024 To 21/06/2024	Students will able to learn about the Indianism in English, American list of words, and their equivalent words in Global English World.	Text book and PPT	Exercises	Strengthening their vocabulary skills.
GRAMMAR :- Framing questions (including Tag questions)	24/06/2024 To 27/06/2024	Students will be able to frame questions. To Understand the poem 'Girl'.	Exercises Techniques of reading poetry	Formulate questions and critical responses regarding themes. Self-Awareness	Students learned how to frame questions. The student explore themes of sexual reputation domesticity and the complexity of a mother /daughter relationship
UNIT –II PROSE POEM :GIRL BY JAMAICA KINCAID	29/06/2024 To 02/07/2024	To Understand the Prose 'Gender equality is your issue too'.	Lecture Method	Text book exercises	Students will be able analyze and interpret clearly about gender equality
PROSE :GENDER EQUALITY IS YOUR ISSUE TOO BY EMMA WATSON	05/07/2024 To 10/07/2024	Verbal analogy can help thinking critically & logically	Practicing the Analogy and odd word out	Frame questions on Tag question.	Strengthening their vocabulary skills.
VOCABULARY: ANALOGY AND ODD WORD OUT	15/07/2024 To 18/07/2024	Students will able to learn about the Regular and irregular verbs , Transitive and Intransitive verbs	PPT	Short questions and answers.	Students learned Regular and irregular verbs , Transitive and Intransitive verbs
GRAMMAR: VERBS	20/07/2024 To				
Unit-III REVIEW WRITING: FILM REVIEW, BOOK REVIEW	25/07/2024 29/07/2024 To	Students will be able to critique and analyze work of film and book review.	Lecture Method	Write a review of a film you enjoyed. Review a book of fiction	Students able to communicate both orally and verbally about film genres, Themes and characters.
VOCABULARY:- Technical vocabulary	05/08/2024	Students will able to learn about the Technical vocabulary (Film, literature)_ Film	Text Book		Strengthening their vocabulary skills.

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Teaching Lesson Plan (2024-2025)

Subject: English **Semester: VI**
Class:B.B.A And B.B.M (AI &DS) **Name of the Faculty:Amtul Bari**

Topic/Unit/Chapter	No. of Classes (From ---- to-----)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT:4 **STRANGE MEETING:WILFRED OWEN** A brief introduction of the poet and explanation of the poem.	20/11/2024 To 24/11/2024	Students will able to know about the cultural crisis, selfishness, loss of innocence, and real emotion vs fake expression.	Individual reading by the students, understanding the purpose of extract.	Q/A, Fill in the blanks and Debate.	Motivation towards reading and to enhance their power of imagination.
PROSE: THE PIECE OF STRING:GUY DE MAUPASSANT A brief introduction of the writer.	25/11/2024 To 29/11/2024	An essay by is an extract from the graduation speech delivered by	Individual reading by the students.	MCQs, Fill up the blanks and short questions	The students ask questions which results in comprehending the prose and better cognition development
LANGUAGE DEVELOPMENT: Framing questions and Report Writing.	03/12/2024 To 06/12/2024	Students will able to frame questions after explanation and writes different reports	Visual Aids	Exercises and Practice Sheets	Students can frame questions after explanation and can write different reports.
UNIT:5 **AFTER APPLE PICKING:ROBERT FROST**	09/12/2024 To 14/12/2024	Explanation	PPT	Fill in the blanks	Students understood the lesson.
PROSE: FILM MAKING:SATYAJIT RAY	18/12/2024 To 21/12/2024	Students will able to know about the lesson FILM MAKING.	Text Book	Practice Sheets	Asked students to prepare PPT on Film Making.
LANGUAGE DEVELOPMENT: Conditionals and Content Writing	27/12/2024 To 30/12/2024	Students will able to know about the Conditionals and Content Writing	Text Book and PPT	Exercise for Content	End of the session students able to create content for their own blog
UNIT:6 **THE NEW COLOSSUS:EMMA LAZARUS**	05/01/2025 To 08/01/2025	Explanation	PPT and Samples of Content Writing.	Asked questions from the lesson.	Students learn to understand the poetic form
THE BISHOP'S CANDLESTICKS:NORMAN MCKINNEL	14/01/2025 To 18/01/2025	Students will able to know about the types of sentences.	Individual reading by students.	MCQs, Fill up the blanks and short questions	Students learn about the Prose: The Bishop's Candlesticks.
LANGUAGE DEVELOPMENT: Common Errors in English and Review Writing.	27/01/2025 To 30/01/2025	Students will be able to know about the Bishop's.	Presentation	Exercises for errors in English and review writing	Students learn the concept of Review Writing.

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Department of English
Teaching Lesson Plan (2024-2025)

Semester: VI

Subject: English
Name of the Faculty:Shaik Sameena Begum
Class:B.COM(COMP/GEN)

Topic/Unit/Chapter	No. of Classes (From _____ --- to- -----)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT:4 **STRANGE MEETING:WILFRED OWEN** A brief introduction of the poet and explanation of the poem.	**20/11/2024 To 23/11/2024**	Students will able to know about the cultural crisis, selfishness, loss of innocence, and real emotion vs fake expression.	Individual reading by the students, understanding the purpose of extract.	Q/A, Fill in the blanks and Debate.	Motivation towards reading and to enhance their power of imagination.
PROSE: THE PIECE OF STRING:GUY DE MAUPASSANT A brief introduction of the writer.	**26/11/2024 To 30/11/2024**	An essay by is an extract from the graduation speech delivered by	Individual reading by the students.	MCQs, Fill up the blanks and short questions	The students ask questions which results in comprehending the prose and better cognition development
LANGUAGE DEVELOPMENT: Framing questions and Report Writing.	**02/12/2024 To 05/12/2024**	Students will able to frame questions after explanation and writes different reports	Visual Aids	Exercises and Practice Sheets	Students can frame questions after explanation and can write different reports.
UNIT:5 **AFTER APPLE PICKING:ROBERT FROST**	**08/12/2024 To 12/12/2024**	Explanation	PPT	Fill in the blanks	Students understood the lesson.
PROSE: FILM MAKING:SATYAJIT RAY	**16/12/2024 To 20/12/2024**	Students will able to know about the lesson FILM MAKING.	Text Book	Practice Sheets	Asked students to prepare PPT on Film Making.
LANGUAGE DEVELOPMENT: Conditionals and Content Writing	**25/12/2024 To 29/12/2024**	Students will able to know about the Conditionals and Content Writing	Text Book and PPT	Exercise for Content	End of the session students able to create content for their own blog
UNIT:6 **THE NEW COLOSSUS:EMMA LAZARUS**	**03/01/2025 To 08/01/2025**	Explanation	PPT and Samples of Content Writing.	Asked questions from the lesson.	Students learn to understand the poetic form
THE BISHOP'S CANDLESTICKS:NORMAN MCKINNEL	**15/01/2025 To 20/01/2025**	Students will able to know about the types of sentences.	Individual reading by students.	MCQs, Fill up the blanks and short questions	Students learn about the Prose: The Bishop's Candlesticks.
LANGUAGE DEVELOPMENT: Common Errors in English and Review Writing.	**25/01/2025 To 30/01/2025**	Students will be able to know about the Bishop's	Presentation	Exercises for errors in English and review writing.	Students learn the concept of Review Writing.

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DEPARTMENT OF NUTRITION

Teaching Lesson Plan

Subject: INTRODUCTION TO FOODS AND NUTRITION **Semester: I**

Class: B Sc (NZC) 1 Year **Name of the Faculty: Saba Parveen**

Topic/Unit/Chapter	No. of Classes (From 10 July 2024 to 05 November 2024)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I: Introduction to food groups, cereals, millets, pure carbohydrates.	15 Periods (10-07-2024 to 05-08-2024)	Learning objectives include the knowledge about basic food groups, the nutrients provided by different food groups and detailed classification.	Lectures, ppt, records.	Assignment was given Questions and answers session was conducted.	Students got a transparent idea about basic food groups and the type of nutrients they provide.
Credit II: Pulses and legumes, nuts and oilseeds, fats and oils	15 Periods (06-08-2024 to 04-09-2024)	Objectives include knowledge about nutritive values, basic properties of different food groups and foods acting as different agents.	Lectures, pdfs, spiral binded records, flashcards.	Lecturers, Flashcards, quizzes, etc.	Students are able to know about cooking different items, harmful materials present and physical, chemical properties.
Credit III: Vegetables, fruits and food preservation.	15 Periods (05-09-2024 to 01-10-2024)	Objectives include the effect of processing on nutritive values, perishable nature, metabolic changes.	Lectures, webinars.	Projects of models were prepared on different topics.	The purpose of providing knowledge on respiration, chemical changes, spoilage and preservation was fulfilled.
Credit IV: Animal foods and food adulteration.	15 Periods (07-10-2023 to 05-11-2024)	To provide knowledge about food preservation, techniques and adulteration.	Lectures, Posters, E-Posters.	Seminars were presented, Debates and Poster Presentations.	Students were able to get information about non-veg items, enhancement of nutritive value.

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DEPARTMENT OF NUTRITION

Teaching Lesson Plan

Subject: Nutritional Biochemistry and Human Physiology **Semester: II**

Class: B.Sc (NZC) I Year **Name of the Faculty: Saba Parveen**

Topic/Unit/Chapter	No. of Classes (From 27 November 2024 to 22 March 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I : Macronutrients	15 Periods (27-11-2024 to 23-12-2024)	Objectives include the introduction of macronutrients, their biochemical cycles, the metabolism of carbohydrates, proteins, fats and introduction to enzyme hormones and their action.	Lectures, ppt, records.	Assignment was given. Ppts of cycles are also forwarded.	Students were able to know the actions of various enzymes and prepared colourful cycles of notes.
Credit II : Micronutrients,water, electrolytes and Enzymes	15 Periods (24-12-2024 to 23-01-2025)	The deficiency symptoms and various functions of micronutrients were known.	Lectures, pdfs, spiral binded records, flashcards.	Flashcards were prepared to identify different types of micronutrients.	Students are able to know about various important actions of trace nutrients.
Credit III : Cell, Circulatory System, Nervous System and Endocrine System	15 Periods (13-01-2025 to 20-02-2025)	Objectives include the detailed structures of vital organs of their system, functions and other activities.	Lectures, webinars.	Projects of models were prepared on different topics.	Students enthusiastically participated and presented their models.
Credit IV : Respiration, Digestion and Excretory System	15 Periods (24-02-2025 to 22-03-2025)	Objectives include the biology and metabolic activities of crucial activities.	Lectures, Posters, E-Posters.	pdfs of notes were forwarded.	Students used animations of other technological tools to present webinars.

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DEPARTMENT OF NUTRITION

Teaching Lesson Plan

Subject: NORMAL AND THERAPEUTIC NUTRITION **Semester: III**

Class: B.Sc (NZC) II Year **Name of the Faculty: Tabasum Unnisa**

Topic/Unit/Chapter	No. of Classes (From 01 June 2024 to 21 October 2024)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I : Meal Planning	15 Periods (01-06-2024 to 01-07-2024)	To understand the change in human body composition during different stages of life.	Lectures, ppt, records.	Assignment was given. Ppts of cycles are also forwarded.	To bring a better change through nutrition at various stages of life.
Credit II : Nutrition through life cycle	15 Periods (02-07-2024 to 05-08-2024)	To understand and study milestones of life and apply nutrition at every step of life.	Lectures, pdfs, spira binded records, flashcards.	Lecturers, Flash cards, webinars, etc.	Students were able to know that food plays a key role from the period of pediatric to period of geriatric.
Credit III : Introduction to therapeutic nutrition	15 Periods (05-08-2024 to 17-09-2024)	Objectives include the changes in diet results in therapy and treatment of any diseases.	Lectures, webinars.	Projects of models were prepared on different topics.	Students were able to know the treatment of major and minor ailments through therapeutic nutrition.
Credit IV : Diet in genetic disorders and food allergy	15 Periods (18-09-2024 to 21-10-2024)	The objective includes to shift focus on metabolic disorders and food used to treat them.	Lectures, Posters, E-Posters.	Seminars were presented and pdfs of notes were forwarded.	Students were able to understand the various malfunctions of metabolism.

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DEPARTMENT OF NUTRITION

Teaching Lesson Plan

Subject: DIET IN DISEASE **Semester IV**

Class:B.Sc (NZC) II Year **Name of the Faculty: Tabassum Unnisa**

Topic/Unit/Chapter	No. of Classes (From 27 November 2024 to 22 March 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Energy Metabolism	15 Periods (27-11-2024 to 23-12-2024)	Learning Objective Includes to identify the risks involved with overweight and underweight	Lectures, Use of Bulletin Boards programs, videos and presentation.	Oral test was conducted.	Students are able to understand energy metabolism and are able to modify the diet in obesity and underweight.
Unit 2: Diet In Diabetes and Cardiovascular Diseases	15 Periods (24-12-2024 to 23-01-2025)	Learning objectives include understanding the concept of risk factors and being able to identify the major risk factors for CVD and diabetes.	Working Models, charts, pictures, slides, etc.	Assignment Work was given, a question and answer session was conducted.	Students are able to learn to specify dietary consideration in diabetes and CVD.
Unit 3: Diet In Gastro-Intestinal Diseases	15 Periods (13-01-2025 to 20-02-2025)	Learning objectives include understanding the causes, symptoms and complications of GI diseases and how to manage it through dietary modification.	Presentation slides, Books, Flash cards, useful sites.	Conducted Internal Assessment through online mode, debate.	Students are able to Understand common gastrointestinal disorders

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Unit 4: Diet In Liver and Pancreatic Diseases	15 Periods (24-02-2025 to 22-03-2025)	Learning Objective to understand dietary needs for liver and gallbladder diseases. Correct the underlying causes of diseases; prevent or treat complications.	Audio-visual aid, Flip chart paper, poster board, webinars.	Conducted Internal Assessment through online mode, surprising test.	At the end of the topic students are able to understand the dietary modifications in liver and gallbladder diseases.

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DEPARTMENT OF NUTRITION

Teaching Lesson Plan

Subject: CLINICAL DIETETICS
Class: B.Sc (NZC) III Year

Semester: V
Name of the Faculty: Tabasum Unnisa

Topic/Unit/Chapter	No. of Classes (From 01 June 2024 to 21 October 2024)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Nutrition in critical conditions	15 Periods (01-06-2024 to 0 -07-2024)	To know the importance of pre operative and post operative care and understand the various burn classification and how to manage it through the diet.	Lectures, ppt, records.	Assignmen was given. Ppts of cycles are also forwarded.	Students were able to understand how to manage preoperative and postoperative nutritional status.
Unit II : Nutrient and Drug nteraction	15 Periods (02-07-2024 to 03-08-2024)	To understand the drug interaction and nutrients.	Lectures, pdfs, spiral binded records, flashcards.	Assignment work was given.	Students were able to understand the nutritional state or dietary components taken regularly can affect the metabolism of some drugs.
Unit III : Nutrition in Renal Diseases	15 Periods (06-08-2024 to 17-09-2024)	learning objectives to understand the sequences of abnormal kidney function and the impact of acute and chronic renal failure.	Lectures, webinars.	Conducted internal assessment	At the end of the topic students are able to understand specific risk factors associated with renal diseases.
Unit IV : Nutrition in other conditions	15 Periods (18-09-2024 to	Learning objectives include dietary modification in other conditions such as arthritis, cancer and AIDS .	Lectures, Posters, E-Posters.	Conducted internal assessment and a	The purpose of this section is to provide students with information about nutrition regarding arthritis, cancer and AIDS.

	2 -10-2024)			su prising test.

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DEPARTMENT OF NUTRITION

Teaching Lesson Plan

Subject: PUBLIC HEALTH NUTRITION **Semester: VI**

Class: B. Sc (NZC) III Year **Name of the Faculty: Tabassum Unnisa**

Topic/Unit/Chapter	No. of Classes (From 27 November 2024 to 22 March 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Epidemiology of communicable diseases	15 Periods (27-11-2024 to 23-12-2024)	To understand the terms "incidence" and "prevalence" and their importance in tracking disease patterns. To identify common risk factors that contribute to the spread of communicable diseases.	Lectures, Use of Bulletin Boards, videos and presentation.	oral test was conducted.	Students are able to describe various modes of disease transmission and understand how these modes impact the spread of diseases.
Unit 2: Methods to assess nutritional status	15 Periods (24-12-2024 to 23-01-2025)	To understand the various methods used to assess dietary intake such as 24-hour dietary recall, food frequency questionnaires and to understand the clinical assessment techniques, including physical examinations and medical history.	Working Models, charts, pictures, slides, etc.	Conducted internal assessment through offline mode, question and answer session was conducted.	Students were able to interpret nutritional data which were obtained through various methods.
Unit 3: Food borne diseases	15 Periods (13-01-2025 to 20-02-2025)	To learn about the symptoms and potential health risks associated with food borne diseases including food infection, food poisoning and long	Presentation slides, Books, Flash cards, useful sites.	Assignment work was given, debate.	Students are able to learn proper food handling techniques, including safe food storage and cooking temperatures to prevent food borne illnesses..

		term health complications.			
Unit 4: Health education and agencies to combat malnutrition	15 Periods (24-02-2025 to 22-03-2025)	To understand the role of national and international agencies in combating malnutrition.	Audio-visual aid, Flip chart paper, poster board, Books webinars.	Conducted Internal Assessment through offline mode, surprising test.	Students are able to have a heightened awareness of the issues related to malnutrition,including its causes,consequences and prevalence.

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DEPARTMENT OF POLITICAL SCIENCE

Teaching Lesson Plan – 2024-25

Subject: POLITICAL SCIENCE
Class: B.A (EPP)

Semester: I
Faculty: Mrs. ASMA SADIAH

Topic/Unit/Chapter	No. Of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-I Political Theory	10-07-2024 to 30-07-2024	➢ Students will analyze Political Theory. ➢ Students will be able to explain the nature and value of normative thinking. ➢ Students will understand empirical political theories: system's analysis and structural functionalism. ➢ Students will be able to discriminate between normative and empirical theories.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students enable to Analyze political theory. ➢ Understand empirical & Normative political theories, system analysis and structural functionalism.
Unit-II What Is Political?	01-8-2024 to 30-07-2024	➢ Students will understand the theories of state [origin, nature, functions], they will also evaluate the social contract theory, evolutionary theory, divine origin theory. ➢ Students will evaluate the concept of state sovereignty and analyze the monistic and pluralistic theories of	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will analyze the basic concept liberty, equality, justice under the light of various approaches. ➢ Students will understand the theories of state (origin, nature, function), also evaluate social contract, evolutionary & divine

		sovereignty. ➢ Students will undertake guided research to understand the differentiation between power and authority. ➢ Students will understand political power and various types of authority.			origin theory.
Unit-III Political Concepts	17-08-2024 to 03-09-2024	➢ Students understand the basic concept of liberty with focus on approaches-liberal, Marxist and feminist. ➢ Students study the term equality with reference to liberal, Marxist, and feminist approach. ➢ Like the above two concepts students will evaluate the concept of justice under the light of various approaches	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will undertake guided research to understand the difference between power & authority. ➢ Students study the term equality with reference to Liberal, Marxist & Feminist approach. ➢ Students study the term equality with reference to Liberal, Marxist & Feminist approach.
Unit-IV Political Ideologies	04-09-2024 to 28-09-2024	➢ Students will analyze the various ideologies that are associated with the discipline of political science. ➢ Students will critically analyze ideologies like Marxism and its tenants. ➢ Students will also examine theories like liberalism, neo	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Analyze various ideologies associated with the discipline of pol. Sc like liberalism , Nationalism , Multiculturalism & Marxism. ➢ Students will analyze importance of political institutions (Executive, Legislature,

		liberalism, nationalism, multiculturalism etc.			Judiciary).
Unit-V Political Institutions And Functions	29-9-2024 to 05-11-2024	➢ Students will analyze the importance of political institutions; • Executive • Legislature • Judiciary ➢ Students will critically evaluate the Indian party system-its development and looking at the ideology of dominant national and regional parties. ➢ Students will examine the role of various forces on Indian party system—religion, region, language, caste, etc. ➢ Students will also evaluate the role of pressure groups and media in the functioning of government and political parties.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will evaluate the Indian party system in development of & looking at the ideology of dominant national parties. ➢ Analyze the role of various forces on Indian party system like region, religion, language, caste.

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DEPARTMENT OF POLITICAL SCIENCE

Teaching Lesson Plan

Subject: POLITICAL SCIENCE
Class: B.A (EPP)

Semester: II
Faculty: Mr. Md Danish

Topic/Unit/ Chapter	No. Of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-I Greek Political Thought	11-12-2024 to 31-12-2024	➢ Students will critically analyze the Greek political thought. ➢ Students will demonstrate knowledge of key thinkers and concepts. ➢ Students will be able to evaluate the relevance of Plato's Ideas on justice, education, Communism and most importantly his idea of ideal state. ➢ Students examine the thoughts of Aristotle [father of political science] on revolution, slavery, forms of government etc.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will easily understand the Greek political thoughts ➢ They will be able to evaluate the relevance of Plato's ideas on justice, education, communism & the most important theory of ideal state.
Unit-II Medieval And Early Thought	02-01-2025 to 20-1-2025	➢ Students understand the medieval and early modern thought of Thomas Aquinas. ➢ They will study his theory of laws, his views on church with special focus on church-state controversy. ➢ Students will critically evaluate Niccolo Machiavelli's [father of modern political science] ideas on renaissance, human nature and statecraft.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ They will learn the ancient thoughts of Aristotle on revolution, slavery & forms of government. ➢ Students will understand the medieval thoughts of thinkers like Aquinas & Machiavelli. ➢ Their study theories of law,

					views on church-State &State craft.
Unit-III Social Contractualists	21-01-2025 to 08-02-2025	➢ Students will analyze the theory of origin of state given by Thomas Hobbes, John Locke, and JJ Rousseau. ➢ Students will examine Hobbes ideas on individualism and absolute sovereignty. ➢ Students will evaluate the theory of natural rights and the concept of limited government given by Locke. ➢ Students will study JJ Rousseau's most famous concept of general will and popular sovereignty.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will analyze the theory of origin of state by Thomas Hobbes, Lock, Rousseu. ➢ Students will examine Hobbes & Locke ideas on state of nature & human nature
Unit-IV Utilitarian Thought	09-02-2025 to 28-02-2025	➢ Students in this unit will deal with utilitarian thought. ➢ Students will critically evaluate the concept of utilitarianism and its principles. ➢ Students will also understand JS Mill famous work 'On Liberty' and his ideas on representative government.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will critically the concept of utilitarianism and its principles ➢ Students will understand the thoughts of 20th century by G W F Hegel to Karl Marx.
Unit-V Philosophy Of Dialectics	01-03-2025 to 22-03-2025	➢ Students in this unit will understand 20th century political thought from G.W.F Hegal to Karl Marx. ➢ Students will study Hegal's views on dialectics. ➢ Students will be able to critically evaluate tenants of Marxism i.e historical materialism, class war, surplus value, and revolution.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will study Hegel's views on dialectics &tenents of Marxism i.e historical materialism, class war, surplus value etc.

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DEPARTMENT OF POLITICAL SCIENCE

Teaching Lesson Plan

Subject: POLITICAL SCIENCE
Class: B.A (EPP)

Semester: III
Name of the Faculty: Dr. Md. Rameez

Topic/Unit/ Chapter	No. Of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-I **Ancient** **Thoughts**	1-6-2024 to 29-6-2024	➢ Students will critically evaluate the ancient Hindu social order. ➢ Students will understand the key thinkers like Manu, Kautilya, Buddha etc from ancient India. ➢ Students will demonstrate the understanding and interpretation of key primary documents like Manusmriti, Arthashastra, etc. ➢ Students will examine the Saptanga theory, Mandala theory, concept of Varna Dharma, Dandaneeti, AshtangaMargaetc and find its relevance to the contemporary indian society	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will analyze the emergence of National Movement & inspire by the struggle for freedom. ➢ Students will be able to express their views on independence & partition.
Unit-II **Medival** **Political** **Thought**	30-6-2024 to 01-8-2024	➢ Students will analyze the lives and nationalist thoughts of Raja Ram Mohan Roy, Dayanand Saraswati, Sir Syed Ahmed Khan etc. ➢ Students will understand the social evils like sati system, child marriage, widow non-	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will understand the significance of Indian Constitution & role of Constituent Assembly. ➢ They also come to know the

		remarriages etc. and what techniques these reformers used to eradicate the same. ➢ Students will examine the Aligarh movement and how Sir Syed Ahmed Khan reformed the Muslim society.			role & importance in a Democracy.
Unit-III Renaissance thoughts:	02-08-2024 to 30-08-2024	➢ Students will explore how Renaissance thinkers emphasized individual potential, human dignity, and classical learning. ➢ Students will identify key Greek and Roman texts and ideas that were revived and explain how they shaped Renaissance art, literature, and philosophy. ➢ Students will assess how Renaissance thinkers balanced religious belief with secular interests in politics, science, and daily life. ➢ Students will read and interpret works by figures like Petrarch, Erasmus, Machiavelli, and others to cultivate analytical and interpretive skills. ➢ Students will connect developments in art, science, politics, and literature to broader intellectual movements of the Renaissance period.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will assess the status of fundamental rights of Indian citizens. ➢ Students will analyze the features, importance & Directives Principles of State Policy.
Unit-IV Reformist Thought	01-09-2024 to 22-09-2024	• Students will analyze key theological arguments made by reformers such as Martin Luther, John Calvin, and others challenging the doctrines of the Catholic Church.	Digital mode, PPTs, Video lectures, Laptop and	Internal Assessments	➢ Students will analyze important political institutions of the Indian Union. ➢ They will learn powers &

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		• Students will evaluate how reformist ideas influenced social structures, political authority, and the rise of new religious communities. • Students will explore how the printing press and other forms of media spread reformist ideas and fueled religious debates across Europe. • Students will distinguish between various branches of reform (e.g., Lutheranism, Calvinism, Anabaptism, Anglicanism) and their unique theological and institutional characteristics. • Students will interpret foundational texts like the 95 Theses, Institutes of the Christian Religion, and others to understand reformist arguments and their historical context.	tabs		functions of President, v. president, P.M, Council of Ministers Parliament.
Unit-V Socialist Thought	23-09-2024 to 21-10-2024	➢ Students will understand the movements against caste and untouchability by Jyoti Rao Phule. ➢ Students will analyze the role of Eswara Chandra Vidya Sagar in Bengal renaissance. ➢ Students will critically examine the role of Veersalingam Pantulu in the field of women education, widow remarriage, etc.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will realize the status of highest judicial organization in India. ➢ Also come to know about its composition & powers & functions.

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DEPARTMENT OF POLITICAL SCIENCE

Teaching Lesson Plan

Subject: POLITICAL SCIENCE
Class: B.A (EPP)

Semester: IV
Name of the Faculty:Mr. MD Danish

Topic/Unit/Chapter	No. Of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-I **CONSTITUTIONAL DEVELOPMENTS IN INDIA -** Nationalist Movement and Philosophical Foundation.	11-12-2024 to 31-12-2024	1.Students will analyze the importance of making of Indian constitution. 2.Indian Nationalist Movement. 3.All Phases 4.Students will be able to analyze the basic philosophy of constitution	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will learn about the important political institutions of state government (Governor, C.M, State Council of Minister, State Legislature) ➢ Students also analyze the significance & composition of High Court.
Unit-II INSTITUTIONAL FRAMEWORK – CONSTITUTION – UNION GOVT-STATAE GOVT	02-1-2025 to 20-01-2025	1.Students will analyze the important political institutions of the state government: Governor, Chief Minister, State Legislature: State Legislative Assembly and State Legislative Council. 2.Students will be able to analyze the powers and	Digital mode, PPTs, Video lectures, Laptop and tabs		➢ They will assess the nature of Indian Federalism with focus on union – state relations.

		functions of above institutions. 3.Students will understand the role of speaker, deputy speaker, chairman etc of State Legislature 4.Students will analyze the importance of High Court, its composition and its powers and functions			
Unit-III FEDERAL POLITICS UNION – STATE RELATIONS	21-01-2025 to 08-2-2025	1.Students will assess the nature of Indian federalism with focus on union-state relations. 2.Students will understand the working of Indian Federalism. 3.Students will examine the recent trends in the field of centre-state relation.	Digital mode, PPTs, Video lectures, Laptop and tabs		➢ Students will develop the deeper understanding of services of the local self institutions in India.
Unit-IV **LOCAL-SELF GOVT**	09-2-2025 to 28-2-2025	1.Students will understand the significance and role of both rural govt. and urban govt. in development of the country. 2.Students will be able to apply the comparative methods of analysis to local govt. research.	Digital mode, PPTs, Video lectures, Laptop and tabs		➢ Students may also examine the agitations took place in 1969, 1972 & 2001.

		3.Students develop a deeper understanding of the institutions, politics, processes, and service of local govt..			
Unit-V SEPARATE TELANGANA AGITATION	01 -03-2025 to 22-03-2025	1.Students will analyze the role of political parties in separate Telangana agitation starting from Telangana PrajaSamithi to Telangana RashtriyaSamathi. 2.Students will examine the 1969 agitation, 1972 agitation and agitation that took place from 2001-2004. 3.Students will examine the Andhra Pradesh reorganization bill 2014.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will understand the historical process, agencies & social forces that contributed to the formation of Telangana State

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DEPARTMENT OF POLITICAL SCIENCE

Teaching Lesson Plan

Subject: POLITICAL SCIENCE
Class: B.A (EPP)

Semester: V
Name of the Faculty: Dr. MD Rameez

Topic/Unit/Chapter	No. Of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-I Introduction To International Relations	01-06-2024 to 29-06-2024	➢ Students will demonstrate understanding of the relations between and amongst the nations. ➢ Students will critically analyze the difference between international politics and international relations and learn the meaning and definitions of international relations. ➢ Students will be able to understand the scope, significance and evolution of international relations.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will, demonstrate understanding of the relations between & amongst the nations. ➢ Scope, significance & meaning of the International Relations will also be thought to them
Unit-II History of International Relations	30-6-2024 to 01-08-2024	➢ Students will assess the rise of sovereign states system. ➢ Students will understand the causes and consequences of World War I and II. ➢ Students will be able evaluate the impact of World	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students learn about the sovereign state system, World War 1, World War 2 & its impact on I.R. ➢ Students will come up with their opinion regarding

		War I and II on international relations.			Colonialism, De- colonization &Neo- colonialism.
Unit-III Post War Era	02-08-2024 to 30-08-2024	➢ Students discuses the post war era of and will come up with their opinion regarding colonialism. ➢ Students will analyze the new concept of decolonization and neo-colonialism. ➢ Students will critically examine the emergence of third world, their problems and effects of cold war on third world. ➢ Students will study and examine the causes and effects of cold war, with special reference to USA and USSR.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students critically examine the emergence of third world. ➢ Students study the effects of Cold War.
Unit-IV Concepts Of International Relations	01-09-2024 to 22-09-2024	➢ Students will undertake guided research to understand the differentiation between power and authority. ➢ Students will understand national power and various elements of power. ➢ Students will be able to identify the super power and regional powers in	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ They will understand the difference between power & authority. ➢ Students will learn the International economic institutions, their origin & composition

		international scenario. ➢ Students understand the concept of bi-polarity, uni-polarity and multi-polarity and its relevance to contemporary world.			
Unit-V International Political Economy	23-09-2024 to 21-10-2024	• Students will demonstrate a generalized understanding of the dynamic relationship between politics and economics in the present world. • Students will understand the international economic institutions- their origin, evolution, working, compositions etc. • Students will study the functions of all the financial institutions in the world- World Bank, IMF, WTO, IBRD etc. • Students will critically evaluate the concept of globalization and how economic, social, and cultural dimensions of globalization are linked.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Student study the functions of all Financial Institutions of the world (World Bank, IMF, WTO, IBRD) ➢ They evaluate the concept of Globalization with different dimensions.

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ANWARUL ULOOM COLLEGE (AUTONOMOUS)

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DEPARTMENT OF POLITICAL SCIENCE

Teaching Lesson Plan

Subject: POLITICAL SCIENCE
Class: B.A (EPP) Global Politics

Semester: VI
Faculty: Mrs. ASMA SADIAH

Topic/Unit/Chapter	No. Of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit-I International Organizations	01-12-2024 to 31-12-2024	➢ Students will critically evaluate the creation of league of nation and its working with special focus on the reasons for its failure. ➢ Students understand the meaning of international organization, with special reference to united nation organization. ➢ Students will understand in detail the structure and organ of UN. ➢ Students examine the current position of United Nations organization, dominance of USA in UN etc and analyze the reform and reconstruction measure suggested.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will understand the meaning of international organizations with special reference to UNO, its structure.
Unit-II Regional Organizations	02-01-2025 to 20-01-2025	➢ Students will understand the concepts of region, regionalism, regionalization, regional identity, regional organization etc. ➢ Students will analyze the origin and	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students understand the concept of region, regionalism, regional organizations like SAARC, ASEAN, BRICS.

		working of SAARC. ➢ Students will examine the other regional organizations-ASEAN, BRICS etc- its working in their particular region.			
Unit-III International Security	21-01-2025 to 0802-2025	➢ Assess the arguments and evidence surrounding a controversial issue in the world politics. ➢ Students will be able to differentiate between the idea of positive peace and negative peace. ➢ Students will be able to gain in depth knowledge of the theoretical bases of national and international security. ➢ Students will analyze the concept of arms race, arms control, disarmament etc.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ Students will analyze the concept of Arm race, Arm control & disarmament.
Unit-IV Foreign Policy	09-02-2025 to 28-02-2025	➢ Students will discuss and evaluate the major theories of foreign policy. ➢ Students will also analyze the features and determinants of foreign policy. ➢ Students by understanding the equation between 2 super power, will also understand the concept of non-alignment-its history, evolution and working.	Digital mode, PPTs, Video lectures, Laptop and tabs	Internal Assessments	➢ They will analyze the features & determinants of India's Foreign Policy. ➢ They will understand the history & evolution of Non-Alignment Movement.
Unit-V Contemporary	01-03-2025 to	➢ Students will understand the concept of human rights- its origin, evolution,	Digital mode, PPTs,	Internal Assessments	➢ Students will demonstrate knowledge of system, processes

Issues	22-03-2025	sources, UN charter on human rights etc. ➢ Students will demonstrate knowledge of systems, processes and institutions involved in environmental policy making. ➢ Students will analyze the basic concepts and terms such as patriarchy, feminism, gender etc and also study various views on feminism from J.S Mills to Karl Marx to India's Vandana Shiva.	Video lectures, Laptop and tabs		& institutions involved in environmental policy making

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DEPARTMENT OF PUBLIC ADMINISTRATION

Teaching Lesson Plan

2024-2025

Subject: Basic of Public Administration **Semester: I**

Class: B.A(EPP) **Name of the Faculty: Mrs. Viquar unnisa**

Topic/Unit/Chapter	No. of Classes (From July2022 to Nov2023)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-I: Introduction to public administration *Meaning – nature, scope and importance of public Administration. *Politics – Administration Dichotomy - Woodrow Wilson. *State and Evolution of Public Administration	10/7/24 to 31/7/24 [17]	* Student learn and understand the concept of Public Administration. *Student learn the importance of Public Administration & State and Evolution of Public Administration	Classroom Teaching	Oral Question & Answer	* Students demonstrate the importance of Public Administration.
UNIT -II: Relationships with other Social Sciences: With Special reference to political science, Economics, Sociology, Psychology	1/8/24 to 15/8/24 [12]	*Students learn the relationships with other social sciences	Classroom Teaching	Assignment given	*Understand relations with other socia sciences like Political science, Economics, sociology, Psychology
UNIT -III: Oriental & Classical Approaches *Oriental Approach – Kautilya *Classical Approach – Henry Fayol, Gullick and Urwick *Scientific Management Approach – F W Taylor	16/8/24 to 31/8/24 [12]	*Students learn and understand the Oriental & classical approaches	PPT Presentation	Concepts given	*Students demonstrate the lassical approaches *Student understand the Bureaucratic Approach

*Bureaucratic Approach – Max Weber and Karl Marx					
UNIT - IV : Human relations & Behavior Approach *Human Relations Approach – Elton Mayo *Behavioral Approach – Herbert Simon	3/9/24 to 28/9/24 [21]	* Students learn and understand the Human relations and Behavioral Approach	Classroom teaching	Write a short notes on Behavioral Approach	*Understand the concept of Behavioral Approach
UNIT - V: Ecological & Socio – Psychological Approach *Ecology Approach – Riggs *Socio -Psychological Approaches – Hierarchy of needs – Abraham Maslow *Theory X & Theory Y- Douglas Mc Gregor	1/10/24 to 5/11/24 [26]	* To learn the Ecological and Socio-Psychological Approach	PPT Presentation	Write a brief notes on Theory X & theory Y- Douglas Mc Gregor	* Demonstrate the theory of X and Y

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DEPARTMENT OF PUBLIC ADMINISTRATION

Teaching Lesson Plan

2024-2025

Subject: Principles and Emerging Trends **Semester: II**

Class: B A(EPP) **Name of the Faculty: Mrs. Viquar unnisa**

Topic/Unit/Chapter	No. of Classes (From Dec 2023 to March 2024)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-I : Principles and Emerging Trends *Hierarchy, Unity of command *Leadership & Supervision *Commissions	11/12/24 to 31/12/24 [16]	* Student learn and understand the concept of principles and Emerging Trends *Student learn the importance of Leadership & Supervision	Classroom Teaching	Oral Question & Answer	* Students demonstrate the importance of Hierarchy & Unity of Command *Demonstrate the Leadership & Supervision
UNIT -II :Emerging Trends I-new concepts *New Public Administration – Minnow Brook I * New Public Administration – Minnow Brook II New Public Administration – Minnow Brook III	2/1/25 to 20/1/25 [14]	*Students learn the Emerging Trends I *Students learn New Public Administration -Minnow Brook I to III	Smart Class	Assignment given	*Understand the concepts of Emerging Trends. *Students demonstrate the New Public Administration – Minnow Brook I Students demonstrate the New Public Administration – Minnow Brook II Students demonstrate the New Public Administration – Minnow Brook III

UNIT-III: Emerging Trends-II–IV arket Theories *New Public Management * Public Choice Approach * Public Policy and Governance	21/1/25 to 5/2/25 [13]	*Students learn and understand the Emerging Trends I	PPT Presentation	Concepts given	*Students demonstrate the Market theories *Student demonstrate the Public Choice Approach *Student demonstrate the Public Policy and Governance
UNIT-IV: Emerging Trend – III *New Development Paradigms in the state of Telangana * Role of Civil Services *State Public Service Commission	6/2/25 to 20/2/25 12]	*Students learn and understand the Emerging Trends III *Students learn and understand the New Development Paradigms in the State of Telangana. *Students learn and understand the State Public Service Commission	Smart Class	*PPT presentation on Role of Civil Services * Write a short note on Public Service Commission	*Student demonstrate the New Development Paradigms in the State of Telangana *Student demonstrate the Role of Civil Services. *Student demonstrate the concepts of Public service commission in the state of Telangana.
UNIT-V: Globalization &Public Administration *Good Governance & Development *Globalization & Development *Post Modern Public Administration	21/2/25 To 22/3/25 [24]	*Students learn the Good Governance & Development *Stucents understand the concepts of Globalization & Development *Student learn and understand the post Modern Public Administration	classroom	Seminar	*Students Demonstrate the Good Governance & Development *Students explain the concepts of Globalization & Development *Student demonstrate the concept of post Modern Public Administration

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DEPARTMENT OF PUBLIC ADMINISTION

Teaching Lessor Plan

2024-2025

Subject: Indian Administration (Union Government) **Semester: III**

Class: B.A(EPP) **Name of the Faculty Mrs. V quar unnisa**

Topic/Unit/Chapter	No. of Classes (From June2023 to Oct 2023)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-I: Historical Background *Evolution of Indian Administration *Indian Administration after Independence: Continuity and change *Indian Constitutional Moorings and Administration	1/6/24 to 29/5/24 [24]	* Student learn and understand the concept of Evolution of Indian Administration * Student learn and understand the Indian Administration after Independence: Continuity and change *understand and learn the Indian Constitutional Moorings and Administration	Classroom Teaching	Oral Question & Answer	* Student Demonstrate the concept of Evolution of Indian Administration * Demonstrate the Indian Administration after Independence: Continuity and change *understand about the Indian Constitutional Moorings and Administration
UNIT-II: Union Administration *Political Executive at Central level president Prime Minister Council of Minister *Central Secretariat and PMO *Cabinet secretary	1/7/24 to 20/7/24 [17]	*Students learn the concept of Political Executive at Central level president Prime Minister Council of Minister *Student learn and understand the Central Secretariat and PMO *Student understand about the Cabinet secretary	Classroom Teaching	Assignment given	*Students demonstrate the concept of Political Executive at Central level president Prime Minister Council of Minister *demonstrate the concepts of Central Secretariat and PMO *Demonstrate about the Cabinet secretary, its importance, rules, duties etc.

UNIT -III: Centre – State Relations *Centre State Administrative relations *Central Personnel agencies all India Services	22/8/24 to 20/8/24 [23]	* Students learn and understand the Centre-State Relations	PPT Presentation	Concepts given	*Students demonstrate the Centre State Administrative relations
UNIT-IV: Constitutional and other National bodies *Union Public Service Commission *Election Commission Controller and Auditor General of India *Niti Aayog	21/8/24 to 14/9/24 [13]	* Students learn and understand the Constitutional and other National Bodies	Class room teaching	Concepts given	*Students demonstrate the Constitutional and other National Bodies their functions & Duties. *Demonstrate NITI Aayog
UNIT-V: Public Enterprises in India *Forms of Public Enterprises Department Corporation Company *Performance and Disinvestment	17/9/24 to 2../10/24 [27]	* Students learn and understand the Public enterprises. *Students learn and understand the performance and Disinvestment	PPT Presentation	Write a Short note on forms of Public Enterprises.	*Students demonstrate the Public Enterprises. *Demonstrate the performance and Disinvestment.

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DEPARTMENT OF PUBLIC ADMINISTRATION

Teaching Lesson Plan

2024-2025

Subject: State Administration **Semester: IV**

Class: B.A(EPP) **Name of the Faculty: Mrs. Viquar unnisa**

Topic/Unit/Chapter	No. of Classes (From Dec 2023 to March 2024)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-I : State Administration structure and Processes *Administrative History of Telangana *Political Executive at State Level Governor and Chief Minister	11/12/24 to 31/12/24 [16]	* Student learn and understand the concept of history of Telangana *Student learn the importance of political Executive at state level Governor and Chief Minister	Classroom Teaching	Oral Question & Answer	* Students demonstrate History of Telangana.
UNIT -II :State Administrative Mechanisms *state secretariat-GAD & chief secretary * Secretariat & directorates relations * local governance and district administration in Telangana	2/1/25 to 20/1/25 [14]	*Students learn the State Administrative Mechanisms. *Students learn and Understand the Local Governance and District Administration in Telangana.	Classroom Teaching.	Assignment given	*Demonstrate functions of State Secretariat and Chief Secretary. * Demonstrate the functions of Local Governance and District Administration in Telangana.
UNIT -III: Administrative reforms – need and importance *Administrative reforms-need and importance	21/1/25 to 5/2/25 [13]	*Students learn and understand the Administrative reforms-need and importance	PPT Presentation	Concepts given	*Students demonstrate the needs of administrative reforms *Student understand the importance of administrative reforms.

*Second Administrative reforms commission-features and recommendations *Recent administrative changes at the state level					
UNIT-IV: Technology and Integrity in Government *ICT policy of India *E government *Values and ethics in Administration	6/2/25 to 20/2/25 [12]	*Students learn and understand the Technology and integrity *Students learn about the ICT policy of India	Class room	Write a short note on E-government	*Demonstrate the concepts of ICT policy of India *Demonstrate the E-government *demonstrate values and ethics in Administration.
UNIT-V: Control over Administration *Redressal of citizen grievances, transparency, accountability and Right to information Act *Administrative Accountability *Legislative * Judicial Control	21/2/25 To 22/3/25 [24]	Students learn and understand the redressal of citizen grievances *Students learn about the Right to information Act *understand and learn about the Administrative Accountability *Understand the Judicial Control	PPT Presentation	Seminar	Demonstrate the concepts of Right to information Act *Demonstrate the Administrative accountability *demonstrate functions of Legislative

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DEPARTMENT OF PUBLIC ADMINISTRATION

Teaching Lesson Plan

2024-2025

Subject: Human Resource Management **Semester: V**

Class: B.A (EPP) **Name of the Faculty: Mrs. Viquar unnisa**

Topic/Unit/Chapter	No. of Classes (From June 2023 to Oct 2023)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-I : Introduction *Meaning Nature & scope of human resource management *Importance of human resource management *Human resource strategy and planning	1/6/24 to 28/6/24 [23]	* Students learn and understand the concept of Human Resource Management. *Students learn the importance of HRM *Students learn and understand the strategy and Planning	Classroom Teaching	Oral Question & Answer	* Students demonstrate the importance of HRM
UNIT -I :Bureaucracy & Civil Services *Bureaucratic concept & features *Civil services meaning & evolution *Recruiting agencies-UPSC,staff selection commission	29/6/24 to 22/7/24 [19]	*Students learn the features of Bureaucratic	Classroom Teaching	Assignment given	*Demonstrate the features of Bureaucratic *Demonstration Recruiting agencies-UPSC, staff selection commission
UNIT - II: Personal Management *Recruitment, Selection, placement &training *Promotion & performance evolution *Pay & condition of services	23/7/24 to 21/8/24 [22]	*Students learn and understand the Personal Management	PPT Presentation	Concepts given	*Students demonstrate the Recruitment *Student demonstrate the Promotion & Performance evolution.

UNIT IV: Personal Management *Employee Capacity Building Strategies *Total Qualitative Management * Human Resource Management Effectiveness in Human Resource Audit	22/8/24 to 17/9/24 [20]	*Students learn and understand the employee capacity Building strategies *Students understand the Total Qualitative Management	Classroom	PPT presentation	*Demonstrate the Building strategy *Demonstrate the Total Qualitative Management.
UNIT V: Issues in Human Resource Management *issues in Human Resource Management Downsizing Outsourcing Consultancies and Campus Recruitment	18/9/24 to 21/10/24 [26]	*Students learn and understand the issues of Human Resource	Classroom	Write a short note on campus Recruitment	*Demonstrate the issues of Human Resource

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DEPARTMENT OF PUBLIC ADMINISTRATION

Teaching Lesson Plan

2024-2025

Subject: Financial Management and Material Management **Semester: VI**

Class: B.A(EPP) **Name of the Faculty: Mrs. Viquar unnisa**

Topic/Unit/Chapter	No. of Classes (From Dec 2023 to March 2024)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-I : Introduction *Meaning & scope of financial management *Importance of financial management * Role of finance ministry	11/12/24 to 31/12/24 [16]	* Student learn and understand the concept of Financial Management *Student learn the role of Finance Ministry	Classroom Teaching	Oral Question & Answer	* Students demonstrate the importance of Financial Management * Demonstrate the role of Finance Ministry
UNIT-II :Budget *Meaning, Principles & importance of Budgeting * Preparation, Enchantment and Execution of budget	2/1/25 to 20/1/25 [14]	*Students learn the importance of Budgeting	Classroom Teaching	Assignment given	*Demonstrate and use of Budgeting in the field of research.
UNIT-III: Accounting & Auditing *Accounting & Auditing-Meaning &importance *Comptroller and Auditor General of India *Parliament Financial Committees a.Public Accounts Committee b.Estimates Committee c.Committee on Public Undertakings	21/1/25 to 5/2/25 [13]	*Students learn and understand the accounting & auditing	PPT Presentation	Concepts given	*Students demonstrate the importance of Accounting & Auditing.

UNIT-IV: Materials Management *Meaning importance of scope *Meaning & scope of procurement *Principles & methods of procurement	6/2/25 to 20/2/25 [12]	*Students learn and understand the importance of Material Management	Classroom	Quiz	*Demonstrate the principles and methods of procurement
UNIT-V: Storage & Distribution *Storage-meaning, classification, functions & importance *Distribution-meaning, principles & importance *Logistic Management	21/2/25 To 27/3/25 [24]	*Students understand the Storage-meaning, classification, functions & importance *understand the Distribution-meaning, principles & importance *understand the Logistic Management	Classroom	Seminar	*Demonstrate the Storage-meaning, classification, functions & importance *Demonstrate the Distribution-meaning, principles & importance *Demonstrate Logistic Management

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DEPARTMENT OF ELECTRONICS TEACHING LESSON PLAN FOR SUBJECT: Electronics

B.Sc Electronics
Circuit Analysis 2024-2025
SEMESTER I

Subject Objectives: To equip the students with the knowledge of developments in Circuit Analysis.

Lesson Plan Framework (Unit Wise)

UNIT	TOPICS FOR STUDENT PREPARATION	No. of Classes (From------To)	Objectives	Teaching Aid Used	LEARNING OUTCOME	ASSESSMENT
Unit :1	**Units and definitions:** SI unit, Electric charge, Electric field, electric potential, potential difference, voltage, EMF. **Resistor:** Concept of resistance, V- I relation in resistor, ohm's law and its limitions,types of resistors and their properties and uses, colour codes, combination of resistors in series and parallel. **Capacitors:** concept of capacitance, V-I Relation in capacitor, Energy stored in capacitor, types of capacitors and uses,colour codes, combination of capacitor in series and parallel. **Inductors:** Concept of inductance, V-I relation in inductor, Energy stored in inductor, Mutual inductance and coefficient of coupling, types of inductors and uses, colour codes, combination of inductors in series and parallel. **Simple circuits:** concept of impedence and admittance, Network definition, circuit elements, branch, lumped and distributed networks, linear and non-linear networks, mesh and node, concept of voltage and current both ideal and practical. **Passive networks:**Kirchoffs voltage law (KVL) and Kirchoff's current law (KCL) , application to simple networks consisting of resistors with AC and DC sources, Solution of networks using Node and mesh analysis.	JULY 15 to JULY 30 2024	To develop problem solving skills and understanding of circuit theory through the application of technique and principles of electrical circuit analysis to common circuit problem	Lectures methods Seminars PPT	To understand the deep knowledge of basic components of electronics devices	MCQ VIVA

Unit :2	**Network theorem:** Superposition Theorem ,Thevenin's Theorem, Norton'sTheorem, Maximum power transfer Theorem, Reciprocity Theorem, Milliman's Theorem, Application to simple Networks. **RL and RC Circuit:** ::Transient Response of RL and RC Circuits with step input, Timeconstants. Frequency response of RC and RL circuits ,Types of filters – Low pass filter and High pass filter-frequency response, passive differentiating circuit and passive integrating circuit. **Resonance ::** RLC Series and parallel resonance circuits–Resonant frequency–Q Factor-Bandwidth-Selectivity. **Cathode Ray Oscilloscope ::** Cathode Ray Tube (CRT) and its working, electron gunfocusing, deflection sensitivity, florescent screen. Measurement of Time period, Frequency ,Phase and amplitude.	AUG-01 to AUG-25 2024 AUG-28 to Oct -15 2024	It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace To give need based education in science of the highest quality at the undergraduate level. .Perform experiments and interpret the results of	Lectures methods Seminar PPT Lectures methods Seminars PPT	To understand the concepts of simple circuits and passive networks. To determine the value of network theorems in the circuits.	MCQ VIVA MCQ VIVA
Unit :3						

Unit :4		15 OCT NOV 05 2024	observation, including making an assessment of experimental uncertainties.	Lectures methods Seminars PPT	To understand the conection of circuit. To analyze the CRT and its working	MCQ VIVA

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DEPARTMENT OF ELECTRONICS TEACHING LESSON PLAN FOR SUBJECT: Electronics

B.Sc Electronics
Electronic devices
SEMESTER II

Subject Objectives: To equip the students with the knowledge of developments in Electronic Devices

Lesson Plan Framework (Unit Wise)

UNIT	TOPICS FOR STUDENT PREPARATION	No of classes (From---------- To)	Objectives	Teaching Aid used	LEARNING OUTCOME	ASSESSMENT
UNIT – I	**PN Junction :** formation of PN junction, Depletion region, Junction capacitance, diode equation(qualitative only), Effect of temperature on reverse saturation current, V-I characterestics of i) Junction diode ii) Zener diode iii) Tunnel diode and iv) Varactor diode **Bipolar Junction Transistor(BJT:** PNP and NPN transistors, current components in BJT, BJT static characteristics (Input and Output), Early effect , CB , CC , CE configurations of transistor and bias conditions (cut off, active, and saturation regions), Transistor as a switch, CE configuration as two port network, h – parameter model and its equivalent circuit. Determination of h – parameters from the characteristies. Transistor as	11 DEC to 31 DEC 2024 1 JAN to 18 JAN 2025	To learn to analyze the PN junction behavior at the circuit level and its role in the operation of diodes and active device.	Lectures methods Seminars PPT	Understand operation of diodes, transistor in order to design basic circuits.	MCQ VIVA
UNIT-II			Basics of junction diode, rectifying action of a diode, regulated power supplies and wave	Lectures methods Seminars PPT	To understand the operating principles of semiconductor	MCQ

	an amplifier, Load line analysis (AC and DC). Transistor Biasing – Fixed and self bias **Field Effect Transistor:** Construction and working of JFET, output and transfer characteristics of FET, Determination of FET parameters. Application of FET as Voltage variable resistor. Advantages of FET over BJT. MOSFET :: construction and working of enhancement and depletion modes , Applicat output and transfer characteristics ion of MOSFET as a switch . **Uni Junction Transistor:** Construction and working of UJT and its charactistes. Application of UJT as a relaxation oscillator.	----------Jan20) 2025	shaping circuits.		diodes, bipolar junction transistor, field effect characteristics, light emitting diodes and solar cells	VIVA MCQ VIVA
UNIT- III **UNIT- IV**	**Silicon Controlled Rectifier:** Construction and working of SCR. Two transistor representation, Characteristics of SCR. Application of SCR for power control. **Photo Electronic Devices::** Construction and Characteristics of Light Dependent Resistor (LDR), Photo voltaic Cell, Photo diode, Photo transistor and Light Emitting Diode(LED).	20 JAN 15 FEB 2025 20Classes (Feb16 ---------- ----------Mar15) 2025	To analyze different types of semiconductor devices. To understand the operation and design of multistage amplifier.	Lectures methods Seminars PPT Lectures methods Seminars PPT	To understand the operating principles of semiconductor diodes, bipolar junction transistor, field effect characteristics, light emitting diodes and solar cells Describes the purpose and operation of silicon controlled rectifier. The objective of this programme is to give deep knowledge in electronics devices and circuits	MCQ VIVA MCQ VIVA

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DEPARTMENT OF ELECTRONICS TEACHING LESSON PLAN FOR SUBJECT: Electronics

B.Sc Electronics

Power Supplies And Analog Circuits

SEMESTER III

Subject Objectives: To equip the students with the knowledge of developments in Power Supplies And Analog Circuits.

Lesson Plan Framework (Unit Wise)

UNIT	TOPICS FOR STUDENT PREPARATION	No of Classes (From---------- ---------To)	Objectives	Teaching Aid	LEARNING OUTCOME	ASSESSMENT
UNIT – I	**Rectifier and filters:** RECTIFIER – HALF wave FULL wave and Bridge rectifier ,Efficiency , ripple factor, regulation, harmonic component in rectifier output,Filter – choke input (inductor) filter, shunt capacitor filter, L section and π section filters. **Regulated power supply:** Block diagram of regulated power supply, Series and shunt transistor regulated power supplies, three terminal IC regulators (78XX and 79XX), Principle and working of switch mode power supply (SMPS). UPS –Principle and working.	03 JUNE to 17 JUNE	Familiarized with basic integrated circuit components, its designing & packaging.	Lectures methods Seminars PPT	Understand the voltage current characteristics of a semiconductor diode. Understand operation of half wave and full wave rectifier circuits.	MCQ VIVA
UNIT – II	**Transistor amplifier** : Classification of amplifiers, Hybrid π model of a transistor, RC coupled CE amplifier – frequency response, analysis. **Feedback in amplifiers:** Feedback in amplifiers:: Positive and negative feedback, Effect of negative feedback on gain, bandwidth, noise, input and output impedances. Emitter follower and Darlington pair and its advantages.	18 JUNE to 15 JULY 16 JULY to 25 AUG	To understand operational amplifier and its applications.	Lectures methods Seminars PPT	Determination of output voltages and currents Study the application of diodes in power supply circuits.	MCQ VIVA
UNIT – III	**Oscillators:** Barkhausen criterion for sustained oscillations, RC oscillators- RC phase shift and Wien's bridge oscillators, LC oscillators- Hartley and Colpitt's. **Multivibrators:: Collector Coupled Astable,** Monostable and Bistablemultivibrators –	26 AUG to 06 OCT	Understand various operating modes of Op-amp and its linear/non-linear applications	Lectures methods Seminars PPT	Understand the operations of transistor devices. Analyze the small signal	MCQ VIVA

UNIT – IV	Qualitative treatment only.	07-OCT 27-OCT	To understand differential amplifiers using BJT and MOSFET	Lectures methods Seminars PPT	characteristics of transistor amplifier. Analyze frequency responses and design feedback circuits and oscillator.	MCQ VIVA

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DEPARTMENT OF ELECTRONICS TEACHING LESSON PLAN FOR SUBJECT: Electronics

B.Sc Electronics

Application Of Operational Amplifier And Communication

SEMESTER IV

Subject Objectives: To equip the students with the knowledge of developments in Application Of Operational Amplifier And Communication.

Lesson Plan Framework (Unit Wise)

UNIT	TOPICS FOR STUDENT PREPARATION	No of Classes (From --------- ---------To)	Objectives	Teaching Aid	LEARNING OUTCOME	ASSESSMENT
UNIT – I	**Operational Amplifier:** Emitter Coupled Differential amplifier, Block diagram of Op.Amp. Characteristics of Op.Amp, .Op.Amp. parameters-Input resistance, Output resistance, Common mode rejection ratio (CMMR), Slew rate, Offset voltages, Input bias current, Basic Op-Amp circuits - Inverting Op-Amp, Virtual ground, Non-inverting Op-Amp, Frequency response of Op-Amp. Op Amp as : Summing amplifier, subtractor, Comparator, Voltage	11 DEC to 31 DEC 2024	. Familiarized with basic integrated circuit components, its designing & packaging.	Lectures methods Seminars PPT	This encompasses analog and digital electronic circuits from a circuit and integrated circuit from implementation point of view.	MCQ VIVA

	follower, Integrator, and Differentiator. **Application of Op – Amps:** Logarithmic amplifier, Sine wave [Wien Bridge] generator and square wave [Astable] generator, Triangular wave generator, Mono stable multivibrator, Solving 0f simple second order differential equations. Basic Op-Amp series regulator and shunt regulator, IC 555 Timer [Block diagram and its working], IC 555 as mono stable and astablemultivibrators.					
UNIT- II	**Modulation:** Need for modulation-Types of modulation-Amplitude,, Frequency and Phase modulation.	1 JAN to 18 JAN 2025	To understand operational amplifier and its applications	Lectures methods Seminars PPT	This includes the design of elements in bipolar and CMOS based op amps, feedback, power supplies, linear and non – linear application circuits with the op amps as the basic building ad transistor circuits for realizing basic digital circuits.	MCQ VIVA
UNIT -III	**AmplitudeModulation::** Analysis of Amplitude modulation, side bands, modulation index, AM modulator, Balanced modulator, Demodulation – diode detector.	20 JAN 15 FEB 2025	Understand various operating modes of Op-amp and its linear/non-linear applications	Lectures methods Seminars PPT		MCQ VIVA
UNIT –IV	**Frequency modulation:** Analysis of FM. Working of simple frequency modulator, detection of FM waves – FM Discriminator . Advantages of frequency modulation. AM and FM Transmitter and radio receivers (block diagrams approach) **Introduction To Digital Modulation :** PAM, PPM , PWM and PCM , Delta modulation.	16 FEB to 8 MARCH 2025	This paper aims to describe the concepts of electronics in communication and communication techniques based on Analog Modulation, Analog and digital Pulse Modulation	Lectures methods Seminars PPT	The fundamental of signals and linear time invariant system used in communication systems. Analysis of noise and its impact on different modulation techniques	MCQ VIVA

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DEPARTMENT OF ELECTRONICS TEACHING LESSON PLAN FOR SUBJECT: Electronics

B.Sc Electronics

Digital Electronics

And

Microprocessor – Intel 8085

SEMESTER V

Subject Objectives: To equip the students with the knowledge of developments in Digital Electronics And Microprocessor.

Lesson Plan Framework (Unit Wise)

UNIT	TOPICS FOR STUDENT PREPARATION	No of Classes (From ---------- ----------To)	Objectives	PROCEDURE	LEARNING OUTCOME	ASSESSMENT
UNIT -1	**Number systems and logic gate:** Introduction to number systems-Binary, Decimal, Hexadecimal and Conversions. Logic gates: AND, OR, NOT, XOR, NAND, NOR Gates and their Truth tables, Positive and negative logic, edge trigerring – Logic families and their characteristics-RTL, DTL, ECL, TTL and CMOS. Universal building blocks NAND and NOR gates. Design of basic gates using universal gates.	03 to TUNE to 17 TUNE 2024	To acquire the basic knowledge of digital logic levels and application of knowledge to understand digital electronics circuits.	Lectures methods Seminars PPT	To acquire the basic knowledge of digital logic levels and application of knowledge to understand digital electronics circuits.	MCQ VIVA
UNIT-2	**Boolean Algebra And Combinational Circuits:** Laws of Boolean algebra. De Morgan's Theorems-Boolean identities-Simplification of Boolean expressions-karnaugh Maps-Sum of products(SOP) and Products of sum(POS).Multiplexer and De-Multiplexer-Decoder, Half adder, Full adder and parallel adder circuits.	18 JUNE to 15 JULY 2024. 25 AUG 24	.To prepare students to perform the analysis and design of various digital electronic circuits.			
UNIT-3	**Sequential circuits and analysis:** Flip flops-RS, D ,JK and Master-Slave JK(working and truth tables).Introduction to flip flop excitation tables, Characteristics equations for flip flops. Analysis of clocked sequential circuits, State Tables and State Diagrams, Design procedure, State reduction	26 AUG to 06 OCT 24				

UNIT-4	and assignment **Sequential Circuits & Memories:** Registers ,Shift registers, Serial in-Serial out, Serial in –parallel out, parallel in- serial out, parallel in-parallel out registers, Synchronous and asynchronous binary counters, Up/Down counters-Decade counter(7490)-working, truth tables and timing diagrams. Semiconductor memories-RAM, ROM, PROM, EPROM, EEPROM **Microprocessor:** Microcomputer, Intel 8085 Microprocessor-Pin configuration of 8085 and its description .Central processing unit (CPU)- Arithmetic and logic unit (ALU) – Timing and Control Unit- Register organization (accumulator A, general purpose registers- B, C, D ,E, H, & L. Instruction register, Temporary register, stack pointer(SP),Program counter(PC), Status Flags, Address, Data and Control Buses, Interrupts. **Instruction set of 8085:** Introduction to instruction set, Timing diagrams- Instruction cycle, machine cycle, fetch and execute cycles. Instruction data formats (1,2 &3 byte instructions), Classification of instructions-(Data transfer operations, Arithmetic operations, Logical operations, Branch control operations and Machine control operations). Addressing Modes-Direct addressing, register addressing, register indirect addressing, immediate addressing, implicit addressing. Techniques with additional instructions. **Programming in 8085:** Assembly language programming, examples of 8 and 16 – bit addition, subtraction, multiplication and division. Finding the	07 OCT to 27OCT 24	Work with a variety of number systems and numeric representations, including signed and unsigned binary, hexadecimal, 2's complement. To introduce the methods for simplifying Boolean expressions. To introduce basic postulates of Boolean algebra and show the correlation between Boolean expression . The paper aims at the functional operations of microprocessor.	Lectures methods Seminars PPT Lectures methods	To acquire the basic knowledge of digital logic levels and application of knowledge to understand digital electronics circuits.	MCQ VIVA

	largest and smallest number in data array. Programming examples using stacks and subroutines. Interrupts- Hardware and software interrupts, interrupt call locations, RST 7.5, 6.5 & 5.5 interrupts. Additional 8085 interrupts. **Interfacing Peripherals and applications:** Organisation of memory and its working-Memory and I/O interfacing-Keyboard interfacing (8279)- programmable peripheral interface(8255)- D/A and A/D converters and their interfacing to the microprocessor. Stepper motor control- seven segment LED.	27 OCT 24	To understand need of Microprocessors in computer system To understand architecture and features of typical Microprocessors To learn interfacing of real world input and output devices.	Seminars PPT Lectures methods Seminars PPT	the student will be able to analyse, specify , design, write and test assembly languages programs of moderate complexity. The student will be able to describe some of the characteristics of RISC and CISC architectures. the student will be able to analyse, specify , design, write and test assembly languages programs of moderate complexity. The student will be able to describe some of the characteristics of RISC and CISC architectures.	MCQ VIVA MCQ VIVA

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DEPARTMENT OF ELECTRONICS TEACHING LESSON PLAN FOR SUBJECT: Electronics

B.Sc Electronics

Fundamental Of Embedded System

SEMESTER VI

Subject Objectives: To equip the students with the knowledge of developments in Fundamental Of Embedded System.

Lesson Plan Framework (Unit Wise)

UNIT	TOPICS FOR STUDENT PREPARATION			PROCEDURE	LEARNING OUTCOME	ASSESSMENT
UNIT-1	**Introduction to Embedded systems:** : Block diagram approach of embedded systems. Processor embedded in a system, Embedded hardware Units and devices in system, Embedded software, Complex system design, Design process in embedded systems,Classification of embedded systems. Harvard, Von Neumann architechture- CISC, RISC computers. Families of microcontrollers **The Microcontroller 8051:** Overview and block diagram of 8051. Program counter (PC) and memory organization. Data types and directives, Register banks and Stack Pointer. PSW and Flag bits, other special function registers, Pin diagram-port organization. Interrupts in 8051.Timers /counter modules.	11 DEC to 31 DEC 2024	. Learn the architecture of embedded systems, their classification and application.	Lectures methods Seminars PPT	This subject develops and applies the fundamental of electronic technology in order to deepen the understand of electronic devices that are part of the technologies that surround us.	MCQ VIVA
	Instruction set of 8051-Arithmetic, Logical, Single bit, Jump, Loop and Calll instructions and their usage. Addressing modes (Immediate, Register, Direct, Indirect, Absolute addressing, Relative addressing, Indexed Addressing.) and accessing memory using various addressing modes. Special function registers, their addresses and use. External data moves. Code memory data moves. **Programming in 8051:** Addition, Subtraction, Division, arranging a given set of numbers in ascending/ descending order, picking the smallest/ largest number among a given set of numbers. Programming using JUMP,CALL,PUSH and POP instructions.		2. To have knowledge about the basic working of a microcontroller system and its programming in assembly language.	Lectures methods Seminars PPT	This subject develops and applies the fundamental of electronic technology in order to deepen the understand of electronic devices that are part of the technologies that surround us.	MCQ VIVA

UNIT-2	Timer/counter –basic registers of timers-timer 0, timer 1 registers. TMOD(timermode) register, TCON register. Timer modes programming. Counter mode programming **Serial communication:** **Serial** communication, types, modes and protocols, data transfer rate, serial communication program – SBUF and SCON registers,RS232 Standards, programming timer interrupts **Application of microcontroller:** Display information on a LCD, Interfacing keyboard(8279) , interfacing a sensor, interfacing of DAC 0808 to microcontroller, interfacing of ADC 0804 to microcontroller, seven segment LED.	1 JAN to 18 JAN 2025	To provide experience to integrate hardware and software for microcontroller applications systems.	Lectures methods Seminars PPT	This subject develops and applies the fundamental of electronic technology in order to deepen the understand of electronic devices that are part of the technologies that surround us.	MCQ VIVA
UNIT – 3	**Interrupts and devices drivers:**interrupt handling schemes-context switching, deadline and interrupt latency. Devices driver using interrupt service routine, serial port device driver	20 JAN 15 FEB 2025		Lectures methods Seminars PPT		
UNIT - 4		16 FEB to 8 MARCH 2025	To study various hardware & software tools for developing applications		This subject develops and applies the fundamental of electronic technology in order to deepen the understand of electronic devices that are part of the technologies that surround us.	MCQ VIVA

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Faculty of Social Sciences

Department of History

Lesson Plan 2024-2025

History of India

(from Earliest times to 700 CE)

Subject: History Semester – I

Class: B. A. (H P ML / EHP) 1st Year Name of the Faculty : Mrs. Asma Parveen

Topic / Unit	No. of Classes From: To:	Objectives	Teaching Aids used	Assessments	Outcomes
Unit – I: Nature & scope of History	10-7-2024 To 30-07-2024	✓ To teach definition & nature of History ✓ To describe scope of History ✓ To describe the values of teaching History ✓ To make students aware of Geographical features of India ✓ To know about sources of History ✓ To enable students to learn Practical skills, drawing maps, diagrams	P P T Text Books Images Maps Online classes Zoom apps	Internal Assessment Slip Test	✓ Students acquired basic Historical Research skills ✓ Students understand the Geographical features, Territory, Borders, culture. ✓ Learnt the relationship of History with other Social Sciences ✓ Understand the different cultures, Paleolithic, Mesolithic, Neolithic, Chalcolithic and Megalithic
Unit – II: Civilization	1-08-2024 TO 16-08-2024	✓ To teach Indus Valley Civilization, its features ✓ Students will come to know about the Early	Text Books Pictures	Internal Assessment	✓ Students will be able to critically analyze

		Vedic and Later Vedic Civilization ✓ To know about the Vedic Literature, Society, Economy, Polity and Religion ✓ Students will be able to describe where Indus Valley exists within today's Geo-politics	P P Ts Online classes Zoom apps		how Natural features are beneficial to people of the Indus Valley ✓ Students know about it as the largest of he four Great Ancient Civilizations ✓ It is the Cities were Engineering ✓ Pictures on Seals and other Artifacts shows figures of Gods, Goddess, Plants, Trees and about the Society
Unit – III: Nature & scope of History	17-8-2024 TO 3/09/2024	✓ To teach the effects of Religious movements, to change the Internal character of the Religion ✓ Attempt to alter the Environment in which the Religion resides ✓ To introduce new Religions like Jainism, Buddhism into the Culture ✓ To teach the Political conditions of North – West India at the time of Alexander's Invasion ✓ To analyze the effects of Alexander's Invasion of India and its impacts	P P T Text Books Images Maps Online classes	Slip Test and Continuous Evaluation	✓ Students learn about degradation of Vedic Religion ✓ Rise of new Religions like Jainism and Buddhism ✓ Reasons for rise of new Religions like dominance of Priestly class, Sacrifices, difficult languages of Vedas etc. ✓ Alexander's invasion opened one Marine and three Overland routes of Communication between India and Europe ✓ To exchange of Ideas, Cultures, Growth of Art started

Unit – IV: Mauryan Dynasty	4/09/2024 TO 28/9/2024	✓ Students will learn about the great Emperors of the Mauryan Empire ✓ Explain Mauryan Government, Economy, Religion ✓ Identify the rise and fall of Mauryan Empire ✓ To learn about Kushanas and Kanishker ✓ To learn about the Satavahanas and Sangam age	P P T Text Books Maps Online classes Zoom apps	Internal Assessment	✓ Students learnt the Political unity and internal peace in Mauryan Empire, encouraged the expansion of Trade in India ✓ During Asoka's reign Government oversaw the building of major roadways and the Mauryan International Network of Trade expanded ✓ Learnt about the Satavahana literacy development
Unit – V: Gupta Empire	29/9/2024 TO 05/11/2024	✓ Students will know about the rise, expansion and fall of Gupta Empire ✓ Describe the Golden Age of Gupta Dynasty ✓ Identify the Key leaders and their role in Gupta Dynasty ✓ To know about the Caste system, Feudalism ✓ Position of Women, Education ✓ Harshavardhan and his achievements	P P T Text Books Maps Online classes Zoom apps	Internal Assessment	✓ Students learnt about the Political Survey, Administration of Guptas ✓ Know about the Social and Economic conditions ✓ Feudal system under Guptas ✓ Caste system and the position of Women in the Gupta Society

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Faculty of Social Sciences

Department of History

Lesson Plan History of India
(from 700 CE to 1526 CE)

Subject: History
Class: B. A. (H P ML /EHP) 1st Year

Semester – II
Name of the Faculty : Mrs. Asma Parveen

Topic / Unit	No. of Classes From: To:	Objectives	Teaching Aids used	Assessments	Outcomes
Module – I:	11/12/2024 TO 31/12/2024	✓ To make the students aware of the rise of Regional States ✓ They come to know about the Pallavas, Chalukyas, Rashtrakuntas and Cholas ✓ Students will acquire the knowledge of Military conquest and other achievements of Raja ✓ Salient features of Chola Administration ✓ Literature, Art and Architecture of the Cholas ✓ Rise of Shakti Movement in South India – Shaiva Nayanars and Vaishnava Alwars	P P T Discussions Text Book Online classes	Internal Assessment	✓ Students learnt the Chola Art spread and influenced the Architecture and Art of South East Asia ✓ The Cholas are best for the construction of Magnificent temples ✓ Chola Kings were great patrons of learning ✓ They established great Literacy works ✓ The teachings of Bhakti movement and its influence
Module – II:	02/01/2025 TO 20/01/2025	✓ Students will learn to reason behind the Arab Invasion of Sindh was the Quest for a Seaport in Indian Ocean ✓ The Arab traders had Thai settlement in South Indian and Gujarat ✓ They will learn about the foundation of Delhi Sultanate, slave, Khiljis, Tughluqs, Sayyids and Lodhis	Text Books Online classes P P T	Internal Assessment	✓ The Arab Invasion in Sindh region was a great Historical moment which brought Social and Economical development in the Sindh ✓ Students learnt the law and order was established ✓ Peace and culture was

		✓ The good buildings and planning of cities left a great impact on Indian culture			development ✓ Education spread and Art and Architecture flourished ✓ It brought Social changes ✓ The other religions were given respect ✓ Hinduism and Islamic culture was followed side by side. A mix culture was spread
Module – III:	21/01/2025 TO 08/02/2025	✓ Students were enable to learn that these movements were to encourage religious harmony in the Country ✓ A group of religious minded people called Sufis protest against the growing materialism ✓ Student will learn Bhakti movement started to remove all the evil practices like believe in Idol Worship, sacrifices, magic etc. ✓ The Caste system became very rigid in Hindiusm	Text Books Online classes P P T	Internal Assessment	✓ Students learnt that both the Bhakti and Sufi movements emphasized on the feeling of Universal brotherhood and religious tolerance ✓ This resulted in an Environment of mutual love and respect among different sections of Society ✓ They preach in local language ✓ Both the movements rejected the Caste distinction and a composite culture emerged
Module – IV:	09/02/2025 TO 28/02/2025	✓ To make students aware of the Kakatiyas – their polity & Administration ✓ The Society & Economy and about the Literature & Religion of Kakatiyas ✓ Brief History of Yadavas, Hoysalas and Pandyas ✓ To enable students learn about the Irrigation work done by the Kakatiyas which brings drastic development ✓ To give a brief History of Yadavas, Hoyasalas, Pandyas	Online classes Text Books Zoom apps	Internal Assessment	✓ Students learnt Kakatiyas is an Andhra Dynasty that flourished in 12th Century CE ✓ They ruled Warangal (Telangana) ✓ They were known for the construction of a Network of tanks for irrigation and drinking water ✓ They built many monuments in the state which include Iconic fortresses, gateways & temples ✓ Students learn a brief history of Yadavas, Kakatiyas and & Pandyas

Module – V:	01/03/2025 TO 22/03/2025	✓ Students will learn about the Vijayanagar Empire, their prominent rulers ✓ Their Architechture ✓ Their temples, society & Economy ✓ Its fine Arts & Literature give rise to new heights and its legacy of sculpture paintings & Architecture ✓ Students will learn about the Bahmanis and their contributiontot he Deccan culture	Online classes Text Books Maps	Internal Assessment	✓ Students learnt about the Vijayanagar Architecture, temples, fine Arts, temples ✓ The mingling of South Indian styles under Vijayanagara resulted in a richness not seen in earlier centuries ✓ They learnt about the Society & Economy of the Empire ✓ They learnt about the religious conditions prevailing ✓ About the languages and Literature ✓ About Bahmanis and their contributions to Deccan culture

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Faculty of Social Sciences
Department of History

Lesson Plan History of India
(1526 CE to 1857 CE)

Subject: History
Class: B. A. (H P ML /EHP) 2nd Year

Semester – III
Name of the Faculty : Mrs. Asma Parveen

Topic / Unit	No. of Classes From: To:	Objectives	Teaching Aids used	Assessments	Outcomes
Unit – I: Mughal Empire	01/06/2024 TO 29/06/2024	✓ Students know about Mughal rulers ✓ Compare their achievements ✓ Illustrate development in field of Literature, Art, Architecture ✓ Justice, Prosperity of the Empire ✓ Conquests ✓ Reasons of fall of Mughal Empire	P P T Text Books Reference Books Pictures of Arts & Architecture	Online Test Google Format M C Qs	✓ Students will be able to trace Political History of 16 & 17th Century ✓ Know how Mughal Literature, Art, Architecture is used to reconstruct History
Unit – II: Rise of Marathas	30/06/2024 TO 01/08/2024	✓ Students came to know about Geographical features of Marathas ✓ Guerilla Warfare ✓ Economic equality ✓ Preaching and Bhakti reforms ✓ Political situation of Deccan ✓ Fall of Marathas	P P T Reference Books Videos of Shivaji Guerilla Warfare	Internal Assessment – I taken	✓ Students will be able to understand Shivaji's life ✓ His way of Administration ✓ His way of Warfare ✓ Peshwas ✓ Expansion of Maratha Empire ✓ Fall of Marathas ✓ Learnt basic narrative of Historical events
Unit – III: Advent of the Europeans to India	02/08/2024 TO 30/08/2024	✓ Students know about the coming of Europeans, ✓ Portuguese ✓ Dutch ✓ English	P P T Reference Books	Class Test Conducted (Oral)	✓ Students learn the quest for wealth and power brought European to Indian shores ✓ Europeans brought

		✓ French ✓ Conflict between them ✓ Carnatic Wars ✓ Wellesley's subsidiary alliance ✓ Dalhousie's doctrine of lapse			technologies, ideas ✓ Transform people's lives ✓ Brought latest tools ✓ Wellesley's subsidiary alliance ✓ Dalhousie's doctrine of lapse ✓ Formation of colonies ✓ Evaluate the Anglo – Mysore Wars
Unit – IV: British Governor General	01/09/2024 TO 22/09/2024	✓ Students will know about the contributions, reforms, Wars of British Governor Generals ✓ Three stages of colonialism ✓ Free trade policies ✓ Conditions of peasantry ✓ Famines	P P T Reference Books	Class Test (Oral)	✓ Students will be able to get about the foundation of the British Empire in India ✓ The contribution and Wars and reforms of British Governor Generals ✓ Three stages of colonialism ✓ Free trade policies ✓ Conditions of peasantry famines
Unit – V: Rise of Sikhs in the Punjab	23/09/2024 TO 21/10/2024	✓ Decline of rural cottage industries and urban handicrafts ✓ Growth of railways, roads and communications ✓ Modern industries ✓ 1857 revolt- nature, causes and results	Pictures & Reference Books	II – Internal Assessment	✓ Decline of rural cottage industries and urban handicrafts ✓ Growth of railways, roads and communications ✓ Modern industries 1857 revolt- nature, causes and results

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Faculty of Social Sciences
Department of History

Lesson Plan History of India
(1858 CE to 1964 CE)

Subject: History
Class: B. A. (H P ML/ EHP) 2nd Year

Semester – IV
Name of the Faculty : Mrs. Asma Parveen

Topic / Unit	No. of Classes From: To:	Objectives	Teaching Aids used	Assessments	Outcomes
Unit – I:	11/12/2024 TO 31/12/2024	✓ Students will learn Queen's procalamation ✓ Colonial rule ✓ Western education ✓ Role of Christian machineries	Online Classes P P T Text Books	Internal Assessment	✓ Students learnt we should always fight as a team for independence ✓ Students learnt Queen's procalamation ✓ Colonial rule ✓ Western education ✓ Role of Christian machineries
Unit – II:	02/01/2025 TO 20/01/2025	✓ Students will learn the socio religious reform movements ✓ Brahmasamaj ✓ Arya samaj ✓ Anti-caste movements	P P Ts Maps Online Classes Text Boks	Internal Assessment	✓ Students learnt Lord Rippon worked for the betterment of native Indians and wanted to expand and improve the conditions of Education ✓ He made the Factory Act, the Economic reforms, Local Self Government to train the Indians to manage their problems ✓ Socio religious reform movements ✓ Anti caste movements

Unit – III:	21/01/2025 TO 08/02/25	✓ Students will learn a new way studying Indian past ✓ Rise of nationalism ✓ Formation of Indian national congress ✓ Three phases of freedom struggle ✓ Non cooperation ✓ Indian national army	Text Books Maps Online Classes Zoom Apps	Internal Assessment	✓ Students learned Socio-religious reforms in the 19th Century provided the soil for growth of Indian Nationalism ✓ Rise of nationalism ✓ Formation of Indian national congress ✓ Three phases of freedom struggle ✓ Non cooperation ✓ Indian national army
Unit – IV:	09/02/2025 TO 28/02/2025	✓ Students will be able to learn revolutionary movement ✓ Gadhar party ✓ Bhagat singh ✓ Left wing movement ✓ Rise of socialist and communist parties ✓ Peasant and workers movement	Text Books Zoom Apps P P Ts	Internal Assessment	✓ Students learnt the reasons for the rise of Indian National movement ✓ Gadhar party ✓ Bhagat singh ✓ Left wing movement ✓ Rise of socialist and communist parties ✓ Peasant and workers movement
Unit – V:	01/03/2025 TO 22/03/2025	✓ Students will learn communalism ✓ Prelude to partition of India ✓ Integration of princely states ✓ Jawaharlal Nehru and his policies	Text Books Zoom Apps Online classes Discussion	Internal Assessment	✓ Students learnt communalism is the biggest challenge to National integration and Democracy ✓ Threat of Communal hatredness has shaken the very unity and integrity of our National ✓ It led to the rise of Indian Muslim League and Hindu Mahasabha ✓ Road to partition ✓ Problems of the Refugees ✓ Integration of the Princely States ✓ Nehru as Prime Minister of Independent India

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Faculty of Social Sciences
Department of History

Lesson Plan
History of Modern World
(1453 CE to 1964 CE

Subject: History
Class: B. A. (H P ML/EHP) 3rd Year

Semester – V
Name of the Faculty : Mrs. Asma Parveen

Topic / Unit	No. of Classes From: To:	Objectives	Teaching Aids used	Assessments	Outcomes
Unit – I:	01/06/2024 TO 29/06/2024	✓ Students will be able to explain the causes for the decline of Medieval Socio-Political, Religious, Economic conditions ✓ Renaissance and the Renaissance movement in Italy ✓ The various Geographic discoveries made ✓ The rise of Colonialism ✓ The Colonization of America ✓ Significance of Reformation and Counter Reformation movement ✓ Reformation in England	P P Ts Online Classes Text Books Reference Books	Internal Assessment	✓ Students learnt the reasons for the decline of Socio-Political, Religious and Economic conditions of Medieval Society ✓ The Geographical discoveries and the new inventions ✓ The reasons for the rise of Colonialism ✓ The colonization of America ✓ Reformation in England ✓ The Reforms made by the Reformists Zwengli, Luther, Calvin, Ignatias Loyola
Unit – II: Emergence of Nation States in Europe	30/06/2024 TO 01/08/2024	✓ Students will be able to define Nation – State ✓ List multiple factors that led to Nation – States ✓ Demonstrate a deep understanding of one factor in the rise of Nation – States ✓ About the causes, reasons, effects and results of Glorious Revolution	P P T s Text Books Online Classes	Internal Assessment Continuous Evaluation	✓ Students learnt the factors which led to the rise of Nation – States are the decline of Feudalism and the decline of Church power ✓ The nature of absolute Monarchies and Feudalism in Europe and Asia ✓ The various factors which led to the growth of Enlightened Despots –

		✓ American Revolution ✓ The Wars wages by Napoleon and its Reforms			Fredrick the Great, Peter the Great, Joseph – II of Austria
Unit – III: Industrial Revolution	02/08/2024 TO 30/08/2024	✓ Students will be able to understand the revolution of 1930 and 1848 ✓ Identify the Technological advances that made the Industrial Revolution possible ✓ Analyze the changing conditions created by the Industrial Revolution in both Europe and United States ✓ Causes and impact of Unification of Germany and Italy	Text Books Online Classes P P Ts	Internal Assessment	✓ Students learned causes, reasons for the rise of Japan and Modernization of Japan ✓ The rise of Capitalism and its impact on Asia and Africa ✓ The formation of colonies in Africa, Asia and Latin America ✓ How the European powers enter China and the Opium Wars which results in Revolution in China
Unit – IV: First World War and Russian Revolution	01/09/2024 TO 22/09/2024	✓ Students will be able to understand the events that led to trench Warfare on the Western Front ✓ To identify the effects of War on Civilian life ✓ To describe the origins and goals of the Bolshevik movements in Russia ✓ There were a No. of causes for the War, the Assassination of Austrian Archduke Ferdinand was the main catalyst for starting the War ✓ The causes, results of Russian Revolution	P P Ts Zoom Apps Online Classes Text Books	Internal Assessment	✓ Students learnt the various causes, course and Results of 1st World War ✓ The War destroyed Empires, created numerous new Nation – States, encouraged Independence movements in Europe's colonies ✓ After World War – I, the need for an International body of Nations that promotes Security and Peace World Wide become evident – formation of League of Nations
Unit – V: Development of Inter War Period and 2nd World War U N O	23/09/2024 TO 21/10/2024	✓ Students will be able to understand the development of Inter War period ✓ Understand the causes which led to Great depression of 1929 – 30 ✓ Fascism in Italy and Nazism in Germany and Militarism in Japan ✓ Rise of Turkey under Mustafa Kamal Pasha ✓ 2nd World War, its causes, course and Results	Text Books Zoom Apps P P T Maps	Internal Assessment	✓ Students learnt the legacy of the War would include the spread of Communism from the Soviet Union into Eastern Europe as well as its eventual triumph in China ✓ Global shift in power from Europe to two rival Super Powers – the United States and the Soviet Union ✓ U N O its formation and contribution to World peace

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Faculty of Social Sciences
Department of History

Lesson Plan
Islamic History and Culture
(From Earliest times to Crusades)

Subject: History — Semester – VI
Class: B. A. (H P ML/EHP) 3rd Year — Name of the Faculty : Mrs. Asma Parveen

Topic / Unit	No. of Classes From: To:	Objectives	Teaching Aids used	Assessments	Outcomes
Unit – I: Scope of Islamic History	01/12/2024 TO 31/12/2024	✓ Students will learn about the basic Islamic Education ✓ To provide the Geographical conditions of Arabia ✓ The teachings of Holy Quran as the primary source of Education ✓ Prophet's life and Teaching ✓ Migration from Mecca to Medinah	P P Ts Reference Books Online Classes	Internal Assessment Continuous Evaluation	✓ Students learnt that the Holy Quran urges the mankind to think, ponder, reflect and acquire knowledge ✓ Learn to promote and control the Individual behaviour to the benefits of the Whole Society ✓ Learn about the Meccan period and Migration to Medinah
Unit – II: Battles of Islam conquest of Mecca	02/01/2025 TO 20/01/2025	✓ Students will learn about the importance of Battle of Badr, Battle of Uhad, Battle of Trench and Hunaian ✓ Students learn Prophet fight only for self-defense and when freedom and basic Human Rights of people were in grave danger ✓ To learn conditions of Arabia at the time of Khilafat	Online Classes Text Books P P T	Internal Assessment	✓ Students learnt Muslims seeking a just and peaceful World ✓ Quran teaches us to control aggression and approach others with peace ✓ Learnt about the reasons, results of Wars and how Mecca was conquered
Unit – III: Khilafat Period	**21/01/2025 TO 08/02/2025**	✓ Students will learn about the duties of Khalifas to safeguard and spread Islam	Online Classes	Internal Assessment	✓ Students learnt about the selection of Khalifas

		✓ Life of Hazrath Abu Bakr his contributions ✓ Life of Hazrath Omar, his conquests, Reforms ✓ Life and conquest and Administration of Hazrath Osman and Hazrath Ali	Reference books Text Books		✓ Their life ✓ Their Administration ✓ Their Conquests ✓ And the Reforms made by Khalifas
Unit – IV: The Ummayads	09/02/2025 TO 28/02/2025	✓ Students will know about the rise and fall of Ummayad Dynasty ✓ Social, Education, Political, Military and Judicial conditions ✓ Administration of Ummayads ✓ Arts and Architecture of Ummayads ✓ Ummayads conquests ✓ Incident of Karblala	P P T Reference Books Text Books	Internal Assessment	✓ Students learnt how Ummayads came to power ✓ The founders, Muwaviyah ✓ The incident of Karbala under Yazid ✓ Their conquests and ✓ Administrative system of Ummayads ✓ Spread of Fine Arts ✓ Arts and Architecture
Unit – V: The Abbasids and The Crusades	01/03/2025 TO 22/03/2025	✓ Students will learn about the rise and fall of Abbasids ✓ Their Political, Military and Judicial Administration ✓ The Scientific progress made during Abbasids ✓ Contributions to Art and Architecture ✓ The Cursades	Reference Books Text Books P P T	II – Internal Assessment	✓ Students learnt about the rise and fall of Abbasids ✓ Their contributions to Scientific progress ✓ Their Judicial administration ✓ War of Crusades ✓ Fall of Abbasids

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DEPARTMENT OF MICROBIOLOGY

B.Sc. (Hons.) Biomedical Sciences, Academic year 2024-2025

Subject: Basics of Medical Biology (BMS-C101) **Semester: I**

Class: Biomedical Sciences

Name of the Faculty: Mrs. Nadeem Fatima (Biotech Dept.)
Mrs. Nazia (Nutrition Department)
Mrs. Fehmida Begum (Microbio.Dept.)

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Role of Proteins and Nucleic acids in Medical Biology	4 hrs 20 13/08/24 to 19/08/24	To study about enzymes, proteolytic enzymes, peptides, Nucleic acids as drug targets as drugs and their role in clinical medicine	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand about enzymes as drugs and its role in clinical medicines. • To know about proteolytic enzymes, their sources and benefits. • Understand the concept of peptides • Able to know about Nucleic acids as drug targets
Unit II: Transcription: Eukaryotic transcription of mRNA, tRNA and rRNA	4 hrs 22 21/09/24 to 22/10/24	To study about Eukaryotic transcription, translation & mechanisms	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know the mechanism of transcription. • Understand post-transcriptional modifications. • Learn mechanisms of translation. • Understand the elongation and termination of polypeptides

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Unit III: Variation in chromosomal number	4 hrs 20 24/10/24 to 14/11/24	To study Mutations, chromosomal aberrations, & inherited human diseases.	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the concept of mutations and molecular basis of gene mutations • Know about chromosomal aberrations. • Learn about chromosomal abnormalities in humans. • Explain inherited human diseases
Unit IV: Principles of Diseases and Epidemiology	4 hrs 18 18/11/24 to 20/12/24.	To study about the human diseases caused by microorganisms and epidemiology	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn about the relationship between normal microbiota and host, opportunistic microorganisms. • Understand about bacterial and fungal diseases • Comprehend gastrointestinal tract and urinary tract infections • Know about the general characteristics of viruses



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DEPARTMENT OF MICROBIOLOGY

B.Sc. (Hons.) Biomedical Sciences, Academic year 2024-2025

Subject: Integrated Human Physiology, Anatomy and Pathology (BMS-C103) **Semester: II**

Class: Biomedical Sciences **Name of the Faculty: Dr. Ahmed Al Saiqali, MBBS, (MD)**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Human Anatomy and Physiology:	4 hrs. 18 23/12/24 to 22/01/25	To study Human Anatomy and Physiology with focus on immunological and Hematological Systems	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the body organization and basics of the system • Know Blood composition and Hematopoiesis • Explain Immune response and blood disorders • Explain lymphoid system and its clinical significance
Unit II: Nervous system and sensory organs	4 hrs 24 24/01/25 to 21/02/25	To study physiology and Pathology of nervous system and sensory organs	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Describe neurophysiology and membrane potentials • Understand central and peripheral nervous system • Talk neurotransmission and neurological disorders • Explain sensory systems and disorders

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Unit III: Musculoskeletal system and associated pathologies	4 hrs 18 24/02/25 to 27/03/25	To Study Muscle system and skeletal system functionality	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand Muscle and skeletal system functionality • Learn muscle and joint disorders. • Learn about wound healing and tissue repair • Explain systemic impact of musculoskeletal disorders
Unit IV: Pathological mechanisms and diagnostic techniques	4 hrs 18 25/02/25 to 26/03/25	To study diagnostic techniques and pathological mechanisms	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand foundations of human pathology • Learn about inflammation, healing and chronic diseases • Get knowledge of principles of hemodynamic and nutritional pathologies • Know about modern diagnostic and research techniques

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DEPARTMENT OF MICROBIOLOGY

B.Sc. (Hons.) Biomedical Sciences, Academic year 2024-2025

Subject: Basic and Applied Biostatistics (BMS-C104) **Semester: II**

Class: Microbiology **Name of the Faculty: Ms. Nadeem Fathima**
Dr. Majid Mohiuddin

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Foundations of Biostatistics and Data Analysis	4 hrs 23 12/08/24 to 19/09/24	To study fundamental of biostatistics and data analysis	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn and understand the concept of statistics in pharma • Do descriptive statistics • Do probability and distribution • Learn data visualization
Unit II: Inferential statistics and hypothesis testing	4 hrs 25 23/09/24 to 22/10/24	To study in-dept inferential statistics and hypothesis testing	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand sampling techniques • Understand estimation and hypothesis testing • Learn parametric and non-parametric tests • Learn Mann-Whitney U, Wilcoxon tests
Unit III: Clinical Data Analysis and experimental design	4 hrs 20 24/10/24 14/11/24	To study about the experimental design and clinical data analysis	White Board, black board and	Students are assessed by asking questions during the class and by	On completion of this unit, students will be able to • Understand Clinical study design • Understand experimental design and analysis

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			projector	conducting weekly tests	• Comprehend Biostatistics in clinical trails • Learn Dose-response studies and bioequivalence
Unit IV: Regulatory compliance and reporting theoretical topics	4 hrs 18 23/12/24 to 22/01/25	To study regulatory compliance and reporting theory	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Describe Regulatory frameworks and Biostatistics • Know about European Medicines Agency • Write reports and present data • Explain emerging trends in biostatistics

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DEPARTMENT OF MICROBIOLOGY

B.Sc. (Bt.M.C) Microbiology, Academic year 2024-2025

Subject: General Microbiology **Semester: I**

Class: Microbiology **Name of the Faculty: Ms. Fehmida Begum**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: History of Microbiology	4 hrs 28 11/07/24 to 21/08/24	To study about the history and scope of microbiology, contributions of scientist, Microscopy and staining techniques	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the meaning, definition and scope of microbiology. • To know the history and contributions of various scientist in the field of microbiology. • Understand the concept of microscopy • Able to comprehend different staining techniques and motility testing of microbiology.
Unit II: Structure of Bacteria, Viruses and pure culture concept	4 hrs 29 23/08/24 to 26/09/24	To study the ultra-structures of Eubacteria and Viruses TMV, HIV, Lambda bacteriophage. To study the Pure culture isolation and preservation techniques	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know the ultra-structure of Eubacteria and viruses like TMV, HIV, Lambda bacteriophage. • Understand Isolation of pure culture techniques. • Learn the different methods for preservation of microbial cultures.

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Unit III: Microbial Nutrition and Metabolism	4 hrs 15 28/09/24 to 23/10/24.	To study the microbial nutrition,nutritional groups of microorganisms, growth media, microbial respiration.	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the concept of microbial nutrition and nutritional groups of microorganisms • Identify different types of growth media and its components. • Differentiate between the microbial respiration in aerobes and anaerobes.
Unit IV: Sterilization techniques and Microbial growth	4 hrs 15 26/10/24 to 19/11/24.	To study and understand the different Sterilization techniques, Microbial Growth phases and Methods for measuring growth	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Explain the different sterilization techniques like physical, chemical and radiation. • Understand different phases of microbial growth • Comprehend factors influencing growth and various methods for measurement of microbial growth.

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DEPARTMENT OF MICROBIOLOGY

B.Sc. (Bt.M.C) Microbiology, Academic year 2024-2025

Subject: Microbial diversity **Semester: II**

Class: Microbiology **Name of the Faculty: Ms. Shagufta Tarannum**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Concept of biodiversity	4 hrs. 25 30/11/24 to 19/12/24	To study the concept of biodiversity and conservation, classification of living organisms	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know biodiversity and conservation • Explain elements of biodiversity • Explain economic value of biodiversity • Explain classification of living organisms • Differentiate between prokaryotes and eukaryotes • Comprehend classification of bacteria as per Bergey's manual • Understand the concept of biodegradation.
Unit II: Prokaryotic microbial diversity	4 hrs 24 20/12/24 to 16/01/25	To study the general characteristics, conservation, exploration, significance of microorganisms.	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Describe the general characteristics of microorganisms • Explain the concept of microbial richness • Explain the structural and physiological diversity of archaea bacteria

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					• Explain metabolic characteristics of Extremophiles • Differentiate between gram-negative and gram-positive bacteria
Unit III: Eukaryotic Microbial Diversity	4 hrs 16 21/01/25 to 12/02/25	To Study and understand microbial diversity of Eukaryotes	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Have the knowledge of eukaryotic diversity • Explain the structure, physiology and metabolic characteristics of Algae, Fungi and Protozoa • Describe the association of microbes with eukaryotes • Have knowledge of rumen microflora.
Unit IV: Microbial Ecosystems	4 hrs 14 18/02/25 to 22/03/25	To study the process of microbial interactions, microbial diversity, microbial ecosystems	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Explain various microbial interactions • Differentiate between cultivated and uncultivated microorganisms • Comprehend about preserved and perturbed microbial ecosystems • Understand the human microbiome

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DEPARTMENT OF MICROBIOLOGY

B.Sc. (Bt.M.C) Microbiology, Academic year 2024-2025

Subject: Food and Environmental Microbiology **Semester: III**

Class: Microbiology **Name of the Faculty: Dr. S.P. Sreedhar Bhattar**
Ms. Shagufta Tarannum

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Fermented foods	4 hrs 26 11/07/24 to 20/08/24	To study the health benefits and processing of fermented foods, Dairy microbiology, microorganisms as food	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Explain about various fermented foods • Describe the processing of fermented vegetables and foods • Understand the concept of dairy microbiology and microbial products of milk • Comprehend about microorganisms as food like edible mushrooms • Understand the concept of probiotics and prebiotics
Unit II: Microbial food spoilage and poisoning	4 hrs 25 21/08/24 to 24/09/24	To study the microbial food poisoning, food preservation and food quality	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the concept of food poisoning by microorganisms • Understand about mycotoxins and their toxicity • Understand the various methods of food

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					preservation • Explain about Food quality its importance and assessment methods
Unit III: Air and water microbiology	4 hrs 16 26/09/24 to 24/10/24	To study the microorganisms of Air and Water	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the importance of microorganisms in Air • Understand the water microorganisms and the concept of water pollution • Understand water borne pathogens, their transmission and microbes as indicators of Water pollution • Understand about potable water • Understand the concept of organic-matter degradation • Comprehend the concept of sewage treatment
Unit IV: Soil microbiology	4 hrs 18 21/10/24 to 20/11/24	To study about Soil microorganisms, Plant microbe interactions, role of microorganisms in nutrient cycles	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Describe the soil properties • Understand about soil microorganisms • Understand the concept plant microbe interactions • Understand the concept of nitrogen fixation • Explain the concept of Bioremediation and organic matter degradation • Explain the role of microorganisms in various nutrient cycles.

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DEPARTMENT OF MICROBIOLOGY

B.Sc. (Bt.M.C) Microbiology, Academic year 2024-2025

Subject: Medical Microbiology and Immunology **Semester: IV**

Class: Microbiology **Name of the Faculty: Ms. Shagufta Tarannum**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Medical Bacteriology	4 hrs 26 28/11/24 to 20/12/24	To study and understand the history of microbiology, Air, water, food borne, contact diseases	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Have knowledge of history of medical microbiology, normal flora • Understand the host pathogen interactions, Anti-bacterial and Anti-viral substances • Know about various diseases like Air, water, food borne and contact diseases, Nosocomial infections
Unit II: Medical Virology and Parasitology	4 hrs 22 22/12/24 to 18/01/25	To study the various types of microbial diseases	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the Food and waterborne diseases like polio myelitis, Amoebiasis • Understand the insects' borne diseases like malaria, dengue • Understand about the zoonotic disease Rabies • Understand the viral diseases like Hepatitis b, HIV, SARS, MERS • Understand about the airborne disease Influenza.

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Unit III: Introduction to Immunology	4 hrs 17 22/01/25 to 13/02/25	To study about the Cells and organs of immune system	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the history of immunology • Understand the function and working of cells and organs of immune system • Differentiate between antigens and antibodies • Understand the types of immunity
Unit IV: Immunological disorders and Antigen-Antibody Interactions	4 hrs 18 15/02/25 to 21/03/25	To study the various immunological disorders and Antigen-Antibody interactions	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the types of hypersensitivities and Autoimmune disorders • Understand the complement pathways and explain Antigen-antibody reactions • Explain labelled antibody-based techniques like ELISA, RIA etc. • Comprehend Autoimmunity and poly clonal, monoclonal antibodies

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DEPARTMENT OF MICROBIOLOGY

B.Sc. (Bt.M.C) Microbiology, Academic year 2024-2025

Subject: Molecular Biology and Microbial Genetics **Semester: V**

Class: Microbiology **Name of the Faculty: Dr. Mohammed Al Saiqali**
Ms. Fehmida Begum

Topic/Unit/Chapter	Teaching Hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Microbial genetics	4 hrs 28 4/07/24 to 20/08/24	To study the fundamentals of Genetics, structure of DNA and its replication in prokaryotes and eukaryotes.	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understands the Mendelian laws, allels, linkage and crossing over. • Understands DNA and RNA as genetic maerial • Explains the Watson and Crick Model and extra chromosomal genetic elements • Understands the DNA replication in prokaryotes and eukaryotes
Unit II: mutations & genetics recombination	4 hrs 26 23/08/24 to 26/09/24	To study the Mutations, DNA damage and its repair mechanism.	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understands mutation and types of mutations • Outline of DNA damage and repair mechanisms • Understands the various gene transfer mechanisms among bacteria.

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Unit III: Gene expression	4 hrs 16 28/09/24 to 24/10/24	To study the modern concept of gene, types of RNA and its transcription in prokaryotes.	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Explain the modern concepts of gene • Explain the types of RNA and their functions • Explains the regulation of gene expression in bacteria
Unit IV: recombinant DNA Technology	4 hrs 16 22/10/24 to 20/11/24	To study the basic principles of genetic engineering, cDNA library, Hybridization techniques and a general account on application of genetic engineering in industry, agriculture and medicine	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know the concept of gene cloning methods, cDNA library • Understands a hybridization technique • Knows the application of genetic engineering in Industry, Agriculture and Medicine.

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DEPARTMENT OF MICROBIOLOGY

B.Sc. (Bt.M.C) Microbiology, Academic year 2024-2025

Subject: Pharmaceutical Microbiology **Semester: VI**

Class: Microbiology **Name of the Faculty: Dr. Majid Mohiuddin**
Ms. Shagufta Tarannum

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Introduction to chemotherapy	4 hrs 24 29/11/24 to 20/12/25	To study about the History of Chemotherapy, Paul Ehrlich and his contributions, development of synthetic drugs.	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Explain chemotherapy, plant and arsenicals as therapeutics. • Describe development of synthetic drugs, antitubercular compounds, etc.
Unit II: Antibiotics	4 hrs 23 20/12/24 To 17/01/25	To study about antibiotics as drugs, types and their classification. To study about the principles of chemotherapy	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Discuss the origin, development and definition of antibiotics as drugs, types of antibiotics and their classification. • Explain the principles of chemotherapy.
Unit III: Drug Resistance	4 hrs 14 21/01/25 to 12/02/25	To study the drug resistance and mode of action of important drugs	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Describe drug resistance, clinical basis, biochemistry and genetics of drug resistance in bacteria • Explain mode of action of important drugs as cell wall inhibitors, membrane inhibitors & macromolecular synthesis.

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Unit IV: Microbiological Assays	4 hrs 14 17/02/25 to 21/03/25	To study growth promoting substances assays and antibiotics assays	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Perform growth promoting substances assays experimentally. • Explain and perform drug sensitivity testing methods. • Demonstrate MIC, liquid tube assay, solid agar tube assay & agar plate assay.

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B.Sc. Biotechnology (2024 – 2025)

Teaching Lesson Plan

Subject: Cell Biology and Genetics **Semester: I**

Class: Biotechnology **Name of the Faculty: Owais Ul Haq**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Cell structure and Functions • Introduction to Biotechnology • Cells as basic units of living organisms • Specialized chromosomes Chromosomal aberrations	15 hrs	To study the fundamentals of cell and its structure and function	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the basic unit of an organism • Differentiate the organisms by its structure and composition • Understand the structure of chromosomes and their differences • Know how chromosomes influence the make up of an organism and the disorders related to it
Unit II: Cell Cycle • Bacterial cell division. • Eukaryotic cell	15 hrs	To study the phases involved in cell cycle To study the regulation of cell cycle	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know the components of the cell and their division • Understand the necessity of various phases in the cell cycle • Describe the influence of

cycle - phases. • Regulation of Cell Cycle • Mitosis,Meiosis • Senescence and necrosis					environment on gene expression
Unit III: Mendel's Laws • Mendel's Experiments • Law of Segregation assortment • Gene Interaction • X-Y chromosomes	15 hrs	To study the mechanism of inheritance from one generation to the next	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the concept of inheritance • Describe the probability of chromosome getting inherited • Describe the influence of characters from the parents to the progeny
Unit IV:Linkage and crossing over • Discovery of linkage • Linkage and Recombinant • Gene mapping in Neurospora	15 hrs	To study and understand the influence of genes based on their location	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Explain the arrangement of genes and their interaction • Understand extra nuclear inheritance, linkage and crossing over

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B.Sc. Biotechnology (2024 – 2025)

Teaching Lesson Plan

Subject: Nucleic acid and Biochemistry **Semester: II**

Class: Biotechnology **Name of the Faculty: Owais Ul Haq**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Nucleic acids and Genome organization	15 hrs	To study the biochemistry of Nucleic acids and the organization of genome	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know the structure, types and forms of nucleic acids • Explain genome organization in prokaryotes and eukaryotes • Explain how DNA was identified as the genetic material • Explain how segments of DNA are arranged
Unit II: DNA replication, recombination and repair	15 hrs	To study how DNA is copied and how any damages in DNA are repaired	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Describe the process of DNA replication • Explain the types of DNA damage • Explain the process of DNA recombination • Explain how mistakes in DNA are repaired

Unit III: Biomolecules	15 hrs	To Study and understand various biomolecules and their importance	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Have the knowledge on biomolecules, their importance and classification • Explain the properties of Biomolecules • Describe the factors that can influence the activity of Biomolecules
Unit IV: Bioenergetics	15 hrs	To study the process of generation energy from Biomolecules	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Explain various cycles involved for the production of energy • Describe the conversion of Biomolecules into energy

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B.Sc. Biotechnology (2024 – 2025)

Teaching Lesson Plan

Subject: Molecular Biology and rDNA technology **Semester: III**

Class: Biotechnology **Name of the Faculty: Owais Ul Haq**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Genome organization and DNA replication	15 hrs	To study how genome is organized inside a cell and how its replication takes place	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Explain Genome organization in prokaryotes and eukaryotes • Describe the process of DNA replication • Understand the structure of DNA • Describe the experimental evidences that proved DNA as the genetic material
Unit II: Gene Expression in Prokaryotes and Eukaryotes	15 hrs	To study the process of formation of protein taking information from DNA	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the structure of prokaryotic and eukaryotic gene • Understand how information is carried from DNA to make proteins • Understand the concept of Genetic code and its importance during protein synthesis

Unit III: rDNA technology	15 hrs	To study the technology with which a DNA can be modified using various tool	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the concept of genetic engineering • Understand the enzymes that are uses as tools in r DNA technology • Understand various vectors employed in r DNA technology
Unit IV:rDNA technology	15 hrs	To study how new forms of DNA can be generated using molecular tools	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Describe Polymerase chain reaction • Understand the concept of blotting techniques • Understand the steps involved in r DNA technology • Explain the construction of c DNA library and its application

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B.Sc. Biotechnology (2024 – 2025)

Teaching Lesson Plan

Subject: Bioinformatics and Biostatistics **Semester: IV**

Class: Biotechnology **Name of the Faculty: Mrs. Nadeem Fatima**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Introduction to Bioinformatics and Biological database	15 hrs	To study and understand computational Biology	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the interaction of computer and Biology • Know the role of internet in Biology • Know various databases where biological information is stored
Unit II: Sequence alignment	15 hrs	To study the tools used in computational Biology	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the knowledge about protein and genome database • Understand about the data retrieval tools and its utilization

Unit III: Descriptive statistics and probability distribution	15 hrs	To study the analysis of biological samples by statistical means	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand biostatistical analysis of biological experiments • Understand the methodologies of biostatistics and its application in selection of biological samples • Understand the graphical representation of biological data
Unit IV:Statistical inferences on Qualitative and Quantitative variables	15 hrs	To study the usage of graphical representation using biological data	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the significance of graphical representation • Understand how large sample information is stored and represented

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B.Sc. Biotechnology (2024 – 2025)

Teaching Lesson Plan

Subject: Plant Biotechnology **Semester: V**

Class: Biotechnology **Name of the Faculty: Mrs. Nadeem Fatima**

Topic/Unit/Chapter	Teaching Hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Fundamentals of plant tissue culture	15 hrs	To study requirements for tissue culture	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know the nutritional requirement of a culture media • Know the working of plant growth regulators • Perform the sterilization techniques
Unit II: Application of Plant tissue culture	15 hrs	To study the applications of plant tissue culture	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Describe culture techniques and their applications • Explain somoclonal variations and their applications • Explain cold preservation
Unit III: Production of transgenic plants	15 hrs	To study how the transgenic plants are produced	Blackboard and projector	Students are assessed by asking questions	On completion of this unit, students will be able to • Explain how genes are transferred

				during the class and by conducting weekly tests	using various techniques • Explain how a Genome can be edited
Unit IV: Application of transgenic plants	15 hrs	To study the applications of transgenic plants	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know the concept of resistance in plants • Know how plants with additional qualities are created using r DNA technology

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B.Sc. Biotechnology (2024 – 2025)

Teaching Lesson Plan

Subject: Environmental Biotechnology **Semester: VI**

Class: Biotechnology **Name of the Faculty: Mrs. Nadeem Fatima**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1: Environmental Pollution	15 hrs	To study various pollutants and their effect on environment	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know the concept of pollution • Know the sources and types of pollutants • Perform methods that can measure the level of pollution in environment
Unit II: Biomass and Biofuels	15 hrs	To study various energy sources and the production of biofuels and	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know various energy sources and their importance • Describe methods for the production of Biofuels
Unit III: Biofertilizers and Biopesticides	15 hrs	To study the types and use of various Biofertilizers and Biopesticides	Blackboard and projector	Students are assessed by asking questions during the class and by conducting	On completion of this unit, students will be able to • Know the concept of Biofertilizers • Know the uses and role of various biopesticides and biofertilizers

				weekly tests	
Unit IV: Bioremediation of environmental pollution	15 hrs	To study how waste water is managed and how microorganisms are employed for such management	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know how waste water is treated • Know how micro-organisms are employed for the treatment of various contaminants

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DEPARTMENT OF ECONOMICS

Teaching Lesson plan

Subject: MICRO ECONOMICS **Semester:1**

Class: B.A.[EPP] I YEAR **Name of the Faculty: Mrs. Syed Sadakun**

Topic / Unit / chapter	No. of classes (From To--------)	Objectives	Teacher Aid Used	Assessment	Outcomes
Chapter 1 Consumer Behavior	10 July 24 to 05 Aug 24	• Understand the psychological, social, and cultural factors influencing buying decisions. • Explore how perception, motivation, learning, personality, and attitudes affect consumer choices. • Study the impact of culture, social class, family, and reference groups on purchasing patterns. • Evaluate how consumers recognize needs, search for information, evaluate alternatives, make purchase decisions, and reflect post-purchase. • Learn how businesses use behavioral	PPTs, VIDEOS	Throughout the lesson discussions questions were presented before students to build on prior knowledge and extend student learning.	• Demonstrate a clear understanding of the psychological and sociological foundations of consumer actions. • Evaluate real-world scenarios using consumer behavior frameworks. • Use both qualitative and quantitative insights to assess market trends. • Create targeted marketing plans that reflect consumer needs and preferences. • Reflect on how cultural diversity and ethical marketing practices influence consumer trust and loyalty.

		insights to segment markets, position brands, and enhance customer satisfaction.			
Chapter 2 Production analysis	06 Aug 24 TO 24 Aug 24	*Understand the relationship between inputs and outputs in the production process. *Analyze short-run and long-run production functions and returns to scale. *Study how production decisions influence cost behavior and cost functions. *Understand technical and economic efficiency, and measure productivity using appropriate tools. *Use production models to solve real-world business and economic problems related to resource allocation and optimization.	Same as above	Same as above	• Articulate the roles of input-output relationships, production functions, and returns to scale. • Apply concepts such as isoquants, isocosts, and marginal productivity to decision-making. • Interpret short-run and long-run cost curves and analyze their implications for firms. • Use tools such as total factor productivity and efficiency ratios to measure performance. • Apply production analysis to case studies in business, economics, or operations management.
Chapter 3 Cost and revenue analysis	27 Aug 24 To 24 Sept 24	• Provide a strong foundation in cost structures and revenue generation processes in business. • Understand fixed, variable, total,	Same as above	Same as above	• Clearly explain and categorize cost types and revenue components used in business analysis. • Use graphs and equations to evaluate cost

		marginal, and average costs and their behavior in different production contexts. • Analyze how cost and revenue interact to influence business profitability and decision-making. • Study how pricing strategies and demand elasticity affect total, average, and marginal revenue. • Equip students with tools to forecast costs, set prices, and assess financial performance.			behavior, break-even points, and revenue outcomes. • Interpret how scaling output affects cost per unit and overall profit margins. • Make informed decisions about pricing, budgeting, and resource allocation. • Utilize cost-volume-profit (CVP) analysis, marginal analysis, and other techniques in business strategy.
Chapter 4 Market structure Imperfect competition	25 Sept 24 To 19 Sept 24	• Provide a clear understanding of how monopolistic competition, oligopoly, and monopoly differ from perfect competition. • Examine how firms make strategic decisions in non-competitive markets to maximize profit. • Study advertising, branding, and other strategies used to gain market power. • Introduce game theory and strategic decision-making in markets with few	Same as above	Same as above	• Distinguish between monopoly, oligopoly, and monopolistic competition using real-world examples. • Apply economic models to understand pricing, output, and strategic decisions. • Assess how firms use marketing, branding, and innovation to compete. • Use concepts like Nash equilibrium and dominant strategies to explain firm behavior.

		dominant players. • Discuss consumer impact, market inefficiencies, and the role of government in regulating such markets.			• Analyze the role of regulation, antitrust laws, and public policy in correcting market failures.
Chapter 5 Analysis of business firm Profit and pricing strategy	21 OCT 24 To 6 NOV 24	• Equip students with knowledge of how businesses generate and measure profit. • Analyze fixed, variable, marginal, and average costs in relation to pricing. • Explore how monopolies, oligopolies, and competitive firms set prices differently. • Introduce cost-based, value-based, penetration, skimming, and dynamic pricing models. • Use case studies and data to simulate pricing decisions and profit maximization strategies.	Same as above	Same as above	* Understand the drivers of profitability and the principles of price setting. * Break down cost components and use them to determine breakeven and profit-maximizing prices. * Assess how competition and market dynamics shape pricing behavior. * Select and justify pricing models based on firm objectives, customer value, and market conditions. * Interpret data, perform marginal analysis, and recommend strategies to improve firm performance.

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DEPARTMENT OF ECONOMICS

Teaching Lesson plan

Subject: MACRO ECONOMICS **Semester: II**

Class: B.A FIRST YEAR 2024-25 **Name of the Faculty: Mrs Syed sadakun**

Topic/ unit/chapter	No. of Classes (from -- to----)	Objectives	Teaching Aid used	Assessment	Outcomes
Chapter 1 Introduction to macro economics		To understand the functioning of economy at the macro level. To understand how the economy is regulated through monetary and fiscal policies. To study the important indicators of the economy and their significance.	Classroom teaching	Throughout the lesson discussions questions were presented before students to build on prior knowledge and extend student learning.	Students will able to : TO explain concept of macroeconomics. To apply the circular flow of income. And expenditure. To integrate the role of fiscal and monetary policies in regulating economy. Students will be able to relate individual concepts with aggregate concepts i.e. To merge micro and macro.
Chapter 2 Theories of income and employment		To explain determination of equilibrium level of income and employment and to make students aware about and with aggregate supply/	Same as above	Same as above	Students will be able to answer the questions related to equilibrium level of income and employment (output). Students will able be to explain the meaning of consumption function, relationship between APC and MPC, consumption and income,

		Demand/Employment etc.			concept of multiplier.
Chapter 3 Investment and theories of interest rate		Main aim of the lesson is to explain difference between Classical and Neo – Classical economy and economists, mainly Keynesian Economics.	Same as above	Same as above	The students will be able to: To analyze the income determination through classical and Keynesian economics and understand the relationship between investment and savings, demonstrate investment multiplier, and understand the meaning of MEC and MEI.
Chapter4 Supply of money and demand of money		To explain the concept of money and differentiate between classical theory and theory of Cambridge version	Same as above	Same as above	The students will be able to: To define money and inflation and To describe the relationship between the money supply and inflation. They illustrate the why Cambridge version of the quantity theory represent a more modern monetary theory when compared to Fischer's version.
Chapter 5 Inflation and trade cycles		Then explain different types of inflation, causes and measurements including their uses and limitations. And also to explain different types of trade cycles.	Same as above	Same as above	Students will be able to define different types of inflation and could compare inflation measures.

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DEPARTMENT OF ECONOMICS

Teaching Lesson plan

Subject: STATISTICS OF ECONOMICS **Semester: III**

Class: B.A SECOND YEAR 2024-25 **Name of the Faculty: MRS SYED SADAKUN**

Topic/ Unit/ Chapter	No. of Classes (from -- to ---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Chapter 1 Introduction to statistics	12 June 24 to 07 JULY 24	*To develop the student's ability to deal with numerical and quantitative issues in business. *To enable the use of statistical, graphical and algebraic techniques wherever relevant. T*o have a proper understanding of statistical applications in Economics and Management.	Online teaching along with power point presentation outlines solutions, datasets, and practical sheets.	Throughout the lesson discussions questions were presented before students to build on prior knowledge and extend student learning	On completion of this lesson Students will be able to Describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis, Critically evaluate the underlying assumptions of analysis tools, understand and critically discuss the issues surrounding sampling and significance, Discuss critically the uses and limitations of statistical analysis.
Chapter 2 Measures of central	11 July 24 To 20 AUG 24	To review measures of central tendency and dispersion.	Same as above	Same as above	Students will able to Recognize and apply the concepts of mean, median, and mode in real life problems. At the end of the lesson students are expected to define mean median and mode

tendency					and find and describe them in a given set of data.
Chapter 3 Correlation and regression	21 Aug 24 To 06 Sept 24	A conceptual and practical introduction to the basic concepts and techniques of regression analysis. To explain meaning and uses of regression	Same as above	Same as above	Students will be able to Learn how to apply linear regression models in practice: identify situation where linear regression is appropriate, build and fit linear regression models with software, intrerpret estimates and diagnostic statistics, produce exploratory graphs. They will Learn about the theory underlying point estimation, hypothesis and confidence intervals for linear regression models.
Chapter 4 Index Numbers	09 Sept 24 To 24 Sept 24	To interpret and use a range of index numbers commonly used in the business sector, to Define an index number and explain its use, to perform calculations, involving simple, composite and weighted index numbers, to Understand the basic structure of the consumer price index [CPI] and perform calculations involving its use.	Same as above	Same as above	Upon successful completion of the lesson a student will be able to, Understand the fundamental statistic concepts and some of their application and to organize, and present data. Know different methods of finding average, its calculation merits and demerits, identify the appropriate regression and correlation analysis to an economic set of data.

Chapter 5 Analysis of time series	26 SEPT 24 To 21 OCT 24	Demonstrate advanced understanding of the concepts of time series and their application to health, climate, finance and other areas. Demonstrate familiarity with arrange of examples for the different topics covered in the course. Demonstrate an advanced understanding the underlying concepts in the time series and frequency domains.	Same as above	Same as above	Student will be able to Apply ideas to real time series data and interpret outcomes of analyses. Student will be able to the concepts and components of time series, and the methods of constructing index numbers.

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DEPARTMENT OF ECONOMICS

Teaching Lesson plan

Subject: INDIAN ECONOMY **Semester: IV**

Class: B.A. SECOND YEAR 2024– 2025 **Name of the Faculty: Mrs Syed Sadakun**

Topic/ Unit/ Chapter	No of Days From (-- to --)	Objectives	Teaching Aid used	Assessment	Outcomes
Chapter 1 Structure of Indian economy		To describe changes in the composition of national income and employment. To explain the importance of natural resources.	Classroom teaching	Throughout the lesson discussions questions were presented before students to build on prior knowledge and extend student learning.	Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.
Chapter 2 Indian agriculture		The prime objective of the course is to provide the students with basic knowledge of agriculture with special soil and agronomic factors that governs environmental stability.	Same as above	Same as above	With successful completion of the course the students are expected to develop basic aptitude to apply scientific know – how in addressing environmental problems related to agriculture.

Chapter 3 Indian Industry and services		To identify the economic activities into three sectors of the economy. Distinguish between intermediate and final goods. Compare the role of various sectors in total production of a country.	Same as above	Same as above	The students will be able to: Realize the importance of economic activities in the growth and development of a country. Develop critical understanding about relevant contribution of the various sectors of the economy. Students were able to distinguish between the organized and unorganized sectors of the Indian economy.
Chapter 4 NIIT aayog		To explain the need of simplifying the assessment process and the need for learning enhancement programmes.	Same as above	Same as above	Student will be aware of different measures taken by country to improve the education system, especially learning outcomes for effective implementation of National Education Policy.
Chapter 5 Service sector economic reforms		To explain the structure of an economy comparing its share between the three main sectors – agriculture, industry, and services in the country's total output and employment	Same as above	Same as above	Students will understand the importance of service sector as with the shift to market economies the service sectors have grown rapidly to meet the rising needs of the emerging private sectors.

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DEPARTMENT OF ECONOMICS

Teaching Lesson plan

Subject: DEVELOPMENT ECONOMICS **Semester: V**

Class: B.A FINAL YEAR 2024 – 2025 **Name of the Faculty: Mrs Syed Sadakun**

Topic/ Unit/ chapter	No. of Days (From _To -)	Objectives	Teaching Aid used	Assessment	Outcomes
Chapter 1 Economics Of Growth and Development	12 June 24 To 26 JUNE 24	To explain and differentiate the concepts of economic growth, development, importance of gender empowerment measure.	Classroom teaching along power point presentation shared few videos and slide shares.	Throughout the lesson discussions questions were presented before students to build on prior knowledge and extend student learning.	Student were able to define the concept of economic growth and development and answer questions related to the topics. They understood the importance of empowering a women. They practically understood the role of state in the process of development.
Chapter 2 Factors In Economic Development	27 JUNE 24 To 11 JULY 24	To enable to students to understand that family size is controlled and can contribute materially to the quality of living for the individual family. That population limitation can facilitate the development of a higher quality of life in the nation.	Same as above	Same as above	It enables the students to appreciate the fact that for preserving the health and welfare of the family, to ensure economic stability of the family and to assure good prospects of the younger generation. The Indian families of today should be small and compact. Students got accurate information about the effect of changes in family size and in national population on the individual

Chapter 3 Theories of economic development	12 JULY 24 To 20 JULY 24	To explain the importance of learning both traditional and modern theory of economic development. To explain the concepts like division of labor invisible hands rent analysis along with the importance of unlimited supply of labor and also to explain the importance of innovation in the present market.	Same as above	Same as above	The students of economics learn completely how to make better utilization of goods and services of the country. It enabled the students to understand that the market is not limited to certain type of exchange.
Chapter 4 Theories of under development	22 JULY 24 To 10 AUG 24	To explain the concepts of Theories of under development	Same as above	Same as above	The studying of economics theories helped the students to broaden their knowledge. Students can be aware about most of the interesting and logical facts about the behavior of human beings. The students increase their knowledge through the study of various economic theories, important principles, laws and generalisation
Chapter 5 Allocation of resources	12 AUG 24 To 21 Oct 24		Same as above	Same as above	The reasoning power of the students is increased were mental horizon of the students setback is sharpened.

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DEPARTMENT OF ECONOMICS

Teaching Lesson plan

Subject: INTERNATIONAL ECONOMICS **Semester: VI**

Class: B. A FINAL YEAR 2024– 2025 **Name of the Faculty: Mrs Syed Sadakun**

Topic / Unit/ chapter	No. of Days (from - To ---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Chapter 1 Theories of International Trade		Define international trade and describe how it impacts various countries. Students will be able to distinguish between absolute and comparative advantages of trade.	The main activity of this power point presentation.	Throughout the lessons discussions questions were presented before students to build on prior knowledge and extend student learning.	It enables the students to understand and defend the economic importance of international trade. Students will learn about international trade as it relates to competitive advantage, open trade and politics.
Chapter 2 Trade and Growth		To introduce the concept of gains from trade through voluntary exchanges and clarify misconceptions among students concerning trade.	Same as above	Same as above	To familiarize students with the theoretical foundation of trade,

Chapter 3 Barriers of trade		To define a trade barrier. To explain important vocabulary associated with trade barriers. To discuss the economic outcome of trade barriers.	Same as above	Same as above	In this lesson, students learnt about the history of trade barriers as well as how they impact products in today's time.
Chapter 4 Balance of Payments		To explain the concept of balance of payment to describe the accounting procedure of BOP, to review the trade policy of India to explain the trends in India's balance of payment, to discuss the role of invisibles in BOP, to explain the recent policy measures.	Same as above	Same as above	Students rediscover that the balance of trade always balances. This realization prepares them to objectively describe what is meant by a trade deficit, helping to prepare them for current events discussions that consider the questions of " what's good?" and " what's bad?" about a deficit or surplus in our balance of payments accounts

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		operations.			
Chapter 4 Market structure Imperfect competition	25 Sept 24 To 19 Sept 24	To integrate the concept of price and output decisions of firms under various market structure. To analyze the causes and consequences of different market conditions	Same as above	Same as above	To help students understand and apply the various decision tools to understand the market structure.
Chapter 5 Analysis of business firm Profit and pricing strategy	21 OCT 24 To 6 NOV 24	To make students understand the sellers objectives in making pricing decisions.	Same as above	Same as above	Students will be able to apply marginal analysis to the "firm" under different market conditions.

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Teaching Lesson Plan

Subject: Accounting Standards
Semester: VI

Class: **B.com(Gen)** **Name of the Faculty:**
Mrs.Asiya Sultana

Topic/Unit/Chapter	No. of Classes (From ------- to------)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit -I Introduction	11-12-24 — 11-1-25	Define general Ledger and journal with their functions identify the normal balances of an account record basic journal entries compute the ending balances of each account using account	Smart Board/ Black Board	Objectives and subjective question bank ,s given with E- content	Help students develop a deeper understanding of accounting standard and their applications
Unit II Standards of Relating to financial reporting and disclosure	15-1-25 to 25-1-25	The objectives of financial reporting are to provide useful financial information of external users such as investors creditors and regulators for decision making purposes	Smart Board along black Board s	Objectives and subjective question bank is given with E-content	To develop a deeper understanding of financial reporting and disclosure requirements
Unit- III	27-1-25 to 1-2|25	To Provide financial information	Smart Board along black Board	Objectives and subjective question bank	Incorporating these organs and lessons

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Standards providing guidance of financial statements items		help in making decisions to measure the efficiency of the firm communicate with shareholders bankers government etc		is given with E- content	plans ideas students will be able to identify and explain the different components of financial statements such as assets liabilities equity, revenue and expenses
Unit IV Standards Relating to Business Acquisition and Consolidation	3/2/25 to 15/2/25	Capabilities and market presence to enhance the Acquirer's competitive positions	Smart Board along black Board	Objectives and subjective question bank is given with E-content	.Primary goals of a business at acquisition is to harness the target companies resources standard to understand accounting standard related to business acquisitions IFRS 3 AS 14 identify the outcomes of business acquisitions on financial reporting

Asiya Sultana

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Subject: Cost Control and Management Accounting
Class: B.Com All Streams
Teaching Lesson Plan
Semester: VI

Name of the faculty: **RUQIA FATIMA** Academic Year: **2024-25**
ASIYA SULTANA

Teaching Lesson Plan

Topic/unit/Chapter	No. Of Classes	Objectives	Teaching Aids Used	Assessment	Outcomes
Unit I Introduction to Management Accounting & Marginal Costing - Meaning & Importance - Marginal Cost Equation - Marginal vs Absorption Costing - CVP Analysis - Break-even Analysis - Decision Making: Make or Buy, Add/Drop Products, Sell or Process Further, Operate or Shut-down	15	To understand management accounting fundamentals and marginal costing.	Blackboard, Charts, Case Studies	Internal Assessment and External Assessment	Students can apply marginal costing and make managerial decisions.
UNIT II Budgetary Control and Standard Costing - Meaning, Objectives - Advantages & Limitations - Essentials of Budgets - Classification: Fixed & Flexible Budgets - Standard Costing vs Historical Costing - Variance Analysis: Material, Labour, Overhead	15	To learn budget preparation, classification, and standard costing techniques.	Presentations, Worksheets	Internal Assessment and External Assessment	Students will be able to prepare and analyze budgets and variances.
Unit III Techniques of Financial Statement Analysis	15	To gain knowledge in analyzing	Charts, Ratio Tables, Financial	Internal Assessment	Students can interpret

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- Meaning, Objectives - Comparative Statement - Common Size Statement - Trend Analysis - Ratio Analysis: Activity, Liquidity, Solvency, Profitability - Advantages, Limitations		financial statements using various techniques.	Reports	and External Assessment	ratios and trends from financial data.
Unit IV Funds Flow Analysis - Concept of Funds - Meaning, Importance, Limitations - Determinants of Working Capital - Statement of Changes in Working Capital - Sources & Application of Funds (with problems)	15	To understand the flow of funds and its applications.	Whiteboard, Flowcharts	Internal Assessment and External Assessment	Students can prepare fund flow statements and analyze working capital.
Unit V Cash Flow Analysis (AS-3) - Meaning, Importance - Differences between Funds Flow and Cash Flow - Procedure to Prepare Cash Flow Statement - Overview of Latest Developments in Accounting (with problems)	15	To differentiate between funds flow and cash flow and apply AS-3.	Accounting Software, Examples	Internal Assessment and External Assessment	Students can prepare cash flow statements and understand recent developments.

Mrs. Rugia Fatima / Mrs. Atiya Sultana

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Teaching Lesson Plan

Subject: Financial Accounting-II **Semester: II**
Class: B.Com All Streams **Name of the faculty: RUQIA FATIMA**

Topic /Unit /Chapter	No. of classes	Objectives	Teaching aid used	Assessment	Outcomes
Unit-1 Bills of Exchange	Nov 22 To Dec 04	The familiarize the students with the Accounting Journal entries	Smart Board along with Black Board	**Internal Assessment& External Assessment**	The students acquired the knowledge of the Accounting and negotiable instruments
Unit-2 Consignment	Dec 05 to Dec 27	The emphasis is given to Accounting treatment and Journal entries in the books of consignor and consignee	Smart Board along with Black Board	**Internal Assessment& External Assessment**	The students acquired the knowledge of the preparation of various types of Ledger Accounts
Unit-3 Joint venture	Dec 28 to Jan 25	The familiarize the students with the opening of joint bank account and memorandum joint venture account	Smart Board along with Black Board	**Internal Assessment & External Assessment**	The students acquired the knowledge of the preparation of ledger accounts in joint venture
Unit-4 Single entry system	Jan 27 to Feb 27	The familiarize the students with the conversion process of single entry system into double entry system	Smart Board along with Black Board	**Internal Assessment & External Assessment**	The students acquired the knowledge of how to convert the ledgers to double entry system
Unit-5 Nonprofit organization	Feb 28 to March 24	The familiarize the students with the preparation income and expenditure account & Balance sheet	Smart Board along with Black Board	**Internal Assessment**	The students acquired the knowledge of preparation of balance sheet of non profit organizations

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TEACHING LESSON PLAN

Subject: Income Tax

Name of the teacher: ASHRAF BEGUM

B.Com II year IV sem

Topic/Unit/ Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit –I Introduction	Nov. 22 to Dec.4	To introduce the students basic knowledge of taxes direct-indirect taxes types of incomes and all other basic topic of unit-1`	Smart Board along with Black Board	Objective & Subjective Question Bank is given with E-Content	Students understand the all basic concepts of taxes and including problems
Unit-II Income from salary	Dec. 5 to Dec. 27	To make people understand the definition of salary, computation of salary income , Deduction u/s 17,16 Including problems `	Smart Board along with Black Board	Objective & Subjective Question Bank is given with E-Content	After completion of this unit peoples had lear how to calculate Income from salary, Deduction u/s 16,17 .
Unit-III Income from house property	Dec. 28 to Jan 25	To familiarize the people with definition meaning of house property problems on computation of income from house property.	Smart Board along with Black Board	Objective & Subjective Question Bank is given with E-Content	After successfully completion of IV th unit student were able to understand how to exempt house property income and do deduction u/s 24.
Unit –IV Profits and gains of business or profession	Jan. 27 to Feb 21	To make people to gain knowledge about profits and gains of business or profession	Smart Board along with Black Board	Objective & Subjective Question Bank is given with E-Content	At the end of this unit students had understood how profit and gains of business or profession is calculated
Unit –V Capital Gains and Income from other sources	Feb 22 to Mar 24	To introduce the people about capital gains, Definition, meaning, problems on comstudents with the concepts .	Smart Board along with Black Board	Objective & Subjective Question Bank is given with E-Content	At the end students had learn about tax returns, rectification of mistakes and notice on demand

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SUBJECT: COST ACCOUNTING TEACHING LESSON PLAN

Class: B.COM HONORS 3RD YEAR 5TH SEMESTER BY : ASHRAF BEGUM

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Introduction	15 1/6/24 to 19/6/24	To enable students to explain the objectives and scope of Cost Accounting	Smart board along with black board	Internal Assessment	Students would explain the objectives and scope of Cost Accounting
Unit-II Material	28 20/6/24 to 24/7/24	To enable Students to evaluate the material procurement, procedure, inventory control techniques an inventory	Smart board along with black board	Internal Assessment	Students developed the knowledge about direct and indirect material cost
Unit-III Labour and overheads	25 25/7/24 to 28/8/24	To enable students to evaluate the direct and indirect labour cost, Methods of payment and methods of all	Smart board along with black board	Internal Assessment	Students developed the knowledge labour and overheads
Unit-IV Unit and Job Costing	17 29/8/24 to 21/9/24	To enable students to evaluate unit and job costing	Smart board along with black board	Internal Assessment	Students became aware about unit and job costing
Unit-V Contract and Process Costing	17 23/9/24 to 19/10/24	To enable students to explain contract and process costing	Smart board along with black board	Internal Assessment	Students became aware about contract and process costing

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B.Com II year

III : Semester

SUBJECT: statistics I

TEACHING LESSON PLAN

By: Asra Shireen

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I . ORIGIN AND DEVELOPMENT OF STATISTICS : Importance and scope -investigation- Primary and secondary data.	1/6/2024 To 10/6/2024	To understand meaning, of statistics. And scope	Smart board along with black board	Internal Assessment	Acquire conceptual knowledge of statistics- types of data and errors in research
Unit-II DIAGRAMMATIC AND GRAPHIC PRESENTATION : One and two dimension – Construction of graphs -	11/6/2024 To 24/6/2024	To get acquainted with diagrammatic and graphical presentation	Smart board along with black board	Internal Assessment	Identify and learn the diagrammatic and graphical presentation of data.
Unit-III MEASURES OF CENTRAL TENDENCY – Median –arithmetic mean-geometric mean-mode	26/ 7/2024 To 3/8/2024	To know the concepts and uses of central tendency - median and mode with problems	Smart board along with black board	Internal Assessment	Learn how to apply measure of central tendency –and Learn to find different averages.
Unit-IV MEASURE OF DISPERSION ,SKEWNESS KURTOSIS: Range-quartile deviation- Mean deviation - standard deviation- Karl pearson's coefficient of skewness	5/8/2024 To 8/9/2024	To identify the errors and understand the meaning of Depreciation and its types with problems	Smart board along with black board	Internal Assessment	Apply and learn variety of technological tools such as dispersion-of many statisticians
Unit- CORRELATION – Types of correlation and coefficient –probable error .	10/9/2024 TO 5/10/2024	To understand and uses of types of correlation and coefficient with problems	Smart board along with black board	Internal Assessment	Acquire the knowledge of Coefficient of correlation –such as rank correlation

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B.Com 2nd year 3rd Semester

SUBJECT: ADVANCED ACCOUNTING TEACHING LESSON PLAN BY: SYEDA NAFEES

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Partnership accounts=1	1/6/24 To 29/6/24 21 days	To understand meaning of Ps, rights, fixed &fluctuating method of maintaining capital accounts, admission ,retirement, death of partner	Smart board along with black board	Internal Assessment	Acquire knowledge of ps accounts , profit sharing ratio, admission, retirement, death of partner
Unit-II Partnership accounts -II	1/7/24 To 12/7/24 11 days	To know concept of dissolution of firm & p.s.	Smart board along with black board	Internal Assessment	To recognize the concepts like realization &revaluation.
Unit-III Issue of shares, debenture, underwriting	13/7/24 To 31/8/24 28 days	To understand concept of company, types of shares ,issue of share, allotment etc	Smart board along with black board	Internal Assessment	Acquire the knowledge of shares , allotment, debenture & underwriting.
Unit-IV Company final accounts &profit prior to incorporation	4/9/24 To 21/9/24 13 days	To understand the concept of co act 2013,profit prior to incorporation	Smart board along with black board	Internal Assessment	To recognize the concept of p&l a/c, balance sheet, profit prior to incorporation.
Unit-V Valuation of goodwill &shares	24/9/24 To 26/10/24 21 days	To understand concept of goodwill &valuation of shares&methods	Smart board along with black board	Internal Assessment	Acquire knowledge of valuation of goodwill &shares.

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B.Com 1st year 1st Semester

SUBJECT: FINANCIAL ACCOUNTING

TEACHING LESSON PLAN

By:-Asra Shireen

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Accounting Process: financial accounting Branches of accounting Accounting principles, List of accounting standard ,journal , ledger and trial balance with problems.	28 4/6/24 to 8/7/24	To understand meaning, Functions, principles, Journal, Ledger and Trial balance	Smart board along with black board	Internal Assessment	Acquire conceptual knowledge of basics of accounting
Unit-II Subsidiary Books: types of purchases book-sales book –purchase return and sales return book-cash book three column cash book- including problems	14 11/7/24 to 1/8/24	To understand meaning and types of subsidiary book with problems	Smart board along with black board	Internal Assessment	Identify events that needs to be recorded in the subsidiary books
Unit-III Bank Reconciliation Statement -meaning – need-reasons for differences between cash book and pass book – favourable and over draft –problems with bank reconciliation statement.	11 27/9/24 to 26/10/24	To know the meaning of BRS and problems related to BRS	Smart board along with black board	Internal Assessment	Identify and analyze the reasons for the difference between cash book and pass book balances
Unit-IV Rectification of Errors and Depreciation :capital and revenue expenditure capital and revenue receipt-types of errors and its rectification Depreciation –methods of depreciation including Problems.	14 23/8/24 to 25/9/24	To identify the errors and understand the meaning of Depreciation and its types with problems	Smart board along with black board	Internal Assessment	Recognize circumstances providing for increase exposures errors and frauds
Unit-V Final Accounts : final account of sole trader-preparation of manufacturing ,trading and profit and loss account and balance sheet.	9 3/8/24 to 17/8/24	To understand Final accounts and its preparation along with problems	Smart board along with black board	Internal Assessment	Acquire the knowledge of accounting process and preparation of final accounts

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Teaching Lesson Plan – 2024–25
Subject: Export Marketing

Semester: II

Class: B.Com (Foreign Trade) – I Year

Faculty Name: Mrs. RIFQIA FATIMA

Unit	Topic / Chapter	No. of Classes & Schedule	Objectives	Teaching Aid Used	Assessment	Outcomes
I	Export Marketing: Nature, definition, scope & functions, comparison with domestic marketing, motivating factors, role in India's foreign trade	13 classes (11/12/2024 – 31/12/2024)	Understand fundamental concepts of export marketing and its importance in India's economy	Classroom Lectura, Charts	Oral Q&A, Short tests	Students will explain export marketing and differentiate it from domestic marketing
II	Selection of Export Products: Product planning, adaptation, standardization, lifecycle, branding, packaging, criteria, and role of institutions	18 classes (02/01/2025 – 25/01/2025)	Understand how to select and plan products for international markets	PPT, Product Samples	MCQ, Group Discussion	Students will describe product selection strategies and packaging standards
III	Export Markets: Market selection, classification, appraisal, e-commerce, direct vs indirect exporting, distribution channels	12 classes (27/01/2025 – 08/02/2025)	Learn about global markets, exporting types, and distribution methods	Smart Board, Case Studies	MCQ, Presentations	Students will identify suitable markets and explain export distribution channels
IV	Promotion Abroad: Sales promotion techniques, international advertising, trade fairs, promotion organizations	12 classes (17/02/2025 – 01/04/2025)	Understand international promotional tools and trade participation	PPT, Trade Fair Videos	Class Quiz, Group Activities	Students will analyze sales promotion techniques used abroad
V	Legal Dimensions of Export Contracts: Export contracts, legal issues, agency agreements, product laws, INCOTERMS, credit letters	18 classes (03/03/2025 – 31/03/2025)	Learn legal frameworks and agreements in international trade	PPT, Legal Documents	Case Study, Viva	Students will interpret legal clauses and importance of INCOTERMS

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TEACHING LESSON PLAN

SUB: FINANCIALACCOUNTING

FACULTY NAME: SYEDA NAFEESA

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I ACCOUNTING PROCESS	15/7/24 To 23/8/24 21 days	To understand meaning, Functions, principles, Journal, Ledger and Trial balance	Smart board along with black board	Internal Assessment	Acquire conceptual knowledge of basics of accounting
Unit-II SUBSIDIARY BOOKS	24/8/24 To 24/9/24 18 days	To understand meaning and types of subsidiary book with problems	Smart board along with black board	Internal Assessment	Identify events that needs to be recorded in the subsidiary books
Unit-III B.R.S	25/9/24 To 4/10/24 8 days	To know the meaning of BRS and problems related to BRS	Smart board along with black board	Internal Assessment	Identify and analyze the reasons for the difference between cash book and pass book balances
Unit-IV Rectification of Errors and Depreciation	5/10/24 To 21/10/24 7 days	To identify the errors and understand the meaning of Depreciation and its types with problems	Smart board along with black board	Internal Assessment	Recognize circumstances providing for increase exposures errors and frauds
Unit-V Final Accounts	22/10/24 to 26/10/24 5 days	To understand Final accounts and its preparation along with problems	Smart board along with black board	Internal Assessment	Acquire the knowledge of accounting process and preparation of final accounts

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ESTD-1910

'A' Grade

BCOM 1ST YEAR 1 SEM TEACHING LESSON PLAN

SUB: BUSINESS ORGANISATION AND MANAGEMENT FACULTY NAME: Kausar jabeen

TOPIC/UNIT/CHAPTER	NO OF CLASSES	OBJECTIVES	TEACHING AID USED	ASSESSMENT	OUTCOMES
Unit-I Introduction and forms of business organization	15/7/24 To 1/8/24 12 days	Familiarize the students with the various forms of business organization	Smart board along with black board	Internal Assessment	The students acquired the knowledge of the various forms of business organization
Unit-II Joint stock company	2/8/24 To 17/8/24 12 days	The emphasis is given to corporate entities & its types	Smart board along with black board	Internal Assessment	The students acquired the knowledge of the formation of joint stock company
Unit-III Functions of management	20/8/24 To 4/9/24 11 days	Familiarize the students with the functions & principles of management	Smart board along with black board	Internal Assessment	The students acquired the knowledge of the functions& principles of mgt
Unit-IV Planning and organizing	9/9/24 To 26/9/24 12 days	Familiarize the students with the planning& organization of corporate entities	Smart board along with black board	Internal Assessment	The students acquired the knowledge of the planning& organization of corporate entities
Unit-V Authority,co-ordination & control	27/9/24 to 25/10/24 17 days	Familiarize the students with the authority,coordination and control of corporate entities	Smart board along with black board	Internal Assessment	The students acquire the knowledge of the authority, coordination& control of corporate entities

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DEPARTMENT OF BUSINESS ADMINISTRATION

Lesson Plan:
Principles of Management

Name of the Teacher: Humera Firdous

Class: BBA, BBM & BBA AI & DS

Semester: I

Subject: Principles of Management

Course Duration: July 15, 2024 – October 25, 2024 (15 Weeks)

Mode of Delivery: Lectures, Case Studies, Presentations, Discussions

Course Objectives:

- Understand the fundamentals and evolution of management.
- Apply planning, organizing, decision-making, and control in business contexts.
- Explore modern issues and approaches in management.

Weekly Time-Frame Lesson Plan

Week	Dates	Unit	Topics	Teaching Methods	Learning Outcomes
1	Jul 15 – Jul 20	I	Meaning, Definition, Concept of Management	Lecture, PPT	Understand the basic meaning and elements of management
2	Jul 22 – Jul 27	I	Scope & Principles of Management	Case Discussion	Explain scope and Fayol's & Taylor's principles
3	Jul 29 – Aug 03	I	Evolution of Management Thought – Classical, Behavioral, Systems, Contingency	Timeline Activity	Describe historical development of management
4	Aug 05 – Aug 10	I	Contemporary Perspectives – Art/Science/Profession; POSDCORB Functions	Group Debate, Chart	Differentiate management roles and functions
5	Aug 12 – Aug 17	II	Planning – Meaning, Importance, Features, Principles	Lecture, Mind Map	Understand planning features and benefits
6	Aug 19 – Aug 24	II	Advantages, Disadvantages, Factors,	Group Activity	Analyze types and factors influencing

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			Process of Planning		planning
7	Aug 26 – Aug 31	II	Types of Planning, Decision-Making Process, Types	Decision Tree, Case	Apply decision models to real problems
8	Sep 02 – Sep 07	II	Problems in Decision Making	Situational Games	Recognize challenges in decisions
9	Sep 09 – Sep 14	III	Organizing – Meaning, Importance, Principles	Lecture, Notes	Understand organizing principles and benefits
10	Sep 16 – Sep 21	III	Span of Management, Formal & Informal Org.	Diagram, Case Study	Differentiate span and types of structure
11	Sep 23 – Sep 28	III	Dept.alization, Delegation, Centralization vs Decentralization	Group Discussion	Apply organizing and authority concepts
12	Sep 30 – Oct 05	IV	Staffing – Recruitment, Selection Process	Role Play, Lecture	Describe recruitment and selection techniques
13	Oct 07 – Oct 12	IV	Training, Directing, Controlling	Simulation, Case Study	Explain control processes and types
14	Oct 14 – Oct 19	IV	Motivation, Coordination – Need, Techniques, Cooperation vs Coordination	Activity, Games	Clarify difference and importance of coordination
15	Oct 21 – Oct 26	V	Emerging Issues – TQM, Talent Mgmt, CSR, Leadership, Change Management	Research Presentations	Evaluate modern management challenges

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DEPARTMENT OF BUSINESS ADMINISTRATION

Lesson Plan:

Business Economics

Teacher: Zainab Unnissa Naheed

Class: BBA & BBM – I Semester

Subject: Business Economics

Commencement Date: July 15, 2024

Duration: July 15, 2024 – November 15, 2024

Week No.	Time Frame (From – To)	Unit	Topics to be Covered	Teaching Methods	Learning Outcomes
1	15 July – 20 July	Unit I	Introduction to Business Economics, Characteristics, Nature and Scope	Lecture, Chalk & Talk, Interactive Q&A	Understand the meaning and importance of business economics
2	22 July – 27 July	Unit I	Opportunity Cost, Incremental Cost, Time Perspective	Case Studies, Real-life Examples	Apply economic principles in managerial decisions
3	29 July – 3 Aug	Unit I	Discounting Principle, Equi-marginal Principle	PPT, Discussion Method	Evaluate decision-making using discounting and marginal analysis
4	5 Aug – 10 Aug	Unit II	Concept and Determinants of Demand, Law of Demand & Exceptions	Lecture, Diagrams, Group Discussion	Explain demand and identify factors influencing it
5	12 Aug – 17 Aug	Unit II	Elasticity of Demand – Types and Uses, Concept of Supply	Graphical Analysis, Real-life Case Examples	Differentiate types of elasticity and assess market responses
6	19 Aug – 24 Aug	Unit II	Determinants and Law of Supply, Elasticity of Supply	Class Activity, Chart Work	Understand supply mechanics and elasticity effects
7	26 Aug – 31 Aug	Unit III	Theory of Production, Production Function, Input-output Combinations	Diagram-based Teaching, Lecture	Describe the production process and resource combinations
8	2 Sept – 7 Sept	Unit III	Short-run Laws, Diminishing Returns to Scale	Chalk & Talk, Example-based Explanation	Apply short-run production laws in decision making
9	9 Sept –	Unit III	ISO-quant and ISO-cost	Graph	Interpret isoquants

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Week No.	Time Frame (From – To)	Unit	Topics to be Covered	Teaching Methods	Learning Outcomes
	14 Sept		Curves	Interpretation, Practice Problems	and isocost curves for optimal combinations
10	16 Sept – 21 Sept	Unit IV	Cost Concepts and Classification, Short-run and Long-run Cost Curves	Flowcharts, Comparative Charts	Differentiate cost types and understand cost behavior
11	23 Sept – 28 Sept	Unit IV	Experience Curve, Economies & Diseconomies of Scale, Scope Economies	Case Analysis, Discussion	Evaluate efficiency and scale-related cost changes
12	30 Sept – 5 Oct	Unit V	Market Concepts and Structures, Perfect Competition & Price	Lecture with Examples, Diagrams	Identify market types and analyze perfect competition pricing
13	7 Oct – 12 Oct	Unit V	Monopoly, Monopolistic Competition, Price Discrimination	PPT, Real-world Examples	Compare pricing strategies under different market structures
14	14 Oct – 19 Oct	Unit V	Oligopoly: Features, Kinked Demand Curve, Price Leadership, Market Positioning	Diagram Explanation, Debate	Understand strategic pricing and behavior in oligopoly
15	21 Oct – 26 Oct	Revision & Tests	Recap of all Units, Internal Assessments, Q&A	Quiz, Model Question Discussion	Consolidate knowledge and prepare for exams

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. Lesson Plan:
Fundamentals of Marketing BBM I Year – Semester II

Teacher Name: MK Faizuddin
Classes Commence: 14 December 2024

Unit	Topics Covered	Time Frame (From – To)	Teaching Method	Learning Outcomes
Unit I Introduction to Marketing	- Nature, Scope & Importance of Marketing - Evolution of Marketing - Core Marketing Concepts - Marketing Philosophies: Production, Product, Selling & Marketing Concepts - Marketing Environment: Micro & Macro	14 Dec 2024 – 30 Dec 2024	Lecture, Discussion, Case Examples	Understand the fundamentals of marketing, its evolution and environment. Differentiate various marketing concepts and philosophies.
Unit II Market Segmentation, Targeting & Positioning	- Market Segmentation: Levels & Bases (Consumer & Industrial Markets) - Target Market Selection - Product Positioning: Tools & Strategies	31 Dec 2024 – 13 Jan 2025	Lecture, Group Activities, Case Study	Identify different segmentation strategies. Learn how to select target markets and position products effectively.
Unit III New Product Development	- Meaning & Importance of New Product - Limitations & Reasons for Product Failure - Stages in Product Development - Consumer Adoption Process	14 Jan 2025 – 27 Jan 2025	Lecture, Flowcharts, Examples from Industry	Learn the step-by-step process of developing a new product. Understand why some products fail and how consumers adopt innovations.
Unit IV Product & Pricing Decisions	- Product Concept, Classification - Product Line & Mix Decisions - Product Life Cycle & Marketing Strategies - Pricing: Concept, Methods & Strategies	28 Jan 2025 – 10 Feb 2025	Lecture, Diagrams, Problem Solving	Understand product-related decisions and lifecycle stages. Develop knowledge of pricing techniques and their strategic application.
Unit V Promotion Mix & Distribution	- Promotion Mix: Concept & Factors - Promotional Tools: Advertising, Sales Promotion, PR, Publicity, Personal Selling - Distribution Channels: Designing, Functions, Types of Intermediaries	11 Feb 2025 – 24 Feb 2025	Lecture, Multimedia, Role-plays	Gain insights into various promotion tools and techniques. Understand distribution channels and their importance in marketing.
Revision & Internal Assessment	- Review of All Units - Class Test / Group Presentation / Quiz	25 Feb 2025 – 4 Mar 2025	Recap, Assessment	Reinforce concepts learned. Prepare for semester-end exams through evaluation.

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Lesson Plan: Insurance (Semester VI)

Teacher Name: Dr. Mohammed Siraj Basha
Class: BBA BBM BBA AI & DS

Week(s)	Dates	Unit	Topics Covered	Teaching Method	Learning Outcomes
Week 1	Dec 14 – Dec 20	Unit I	Introduction to Insurance – Meaning, Definitions, Nature	Lecture & Discussion	Understand the meaning and scope of insurance
Week 2	Dec 21 – Dec 27	Unit I	Role, Importance and Functions of Insurance	Case examples & Q&A	Identify the importance and core functions
Week 3	Dec 28 – Jan 3	Unit I	Re-insurance – Principles of Insurance	Case Study & PPT	Explain re-insurance and its working principles
Week 4	Jan 4 – Jan 10	Unit I	Types of Insurance – Globalization & Reforms in Insurance Sector	Group Discussion	Differentiate types of insurance & sector reforms
Week 5	Jan 11 – Jan 17	Unit II	Life Insurance – Introduction, Policy Issuing Procedure	Lecture & Flow Chart	Explain life insurance issuing procedure
Week 6	Jan 18 – Jan 24	Unit II	Policy Loans, Revival, Concepts	Problem-solving & Examples	Understand policy maintenance and loans
Week 7	Jan 25 – Jan 31	Unit II	Life Insurance Products – Traditional & Market Linked	Product Demo & Comparison	Compare various types of life insurance products
Week 8	Feb 1 – Feb 7	Unit II	Pension Plans, Group Insurance	Group Activity	Describe pension plans and features of group insurance
Week 9	Feb 8 – Feb 14	Unit II	Tax Treatment & Claims Settlement	Case Study	Understand tax benefits & settlement procedures
Week 10	Feb 15 – Feb 21	Unit III	General Insurance – Concept, Group Insurance Types	Lecture & Discussion	Recognize group and general insurance products
Week 11	Feb 22 – Feb 28	Unit III	Health, Accident, Motor, Fire Insurance – Claim Settlement	Practical Examples	Explain claim procedure for various policies
Week 12	Mar 1 – Mar 7	Unit III	Health Insurance Plans, Annuities, Individual vs Group	Role Play & Debate	Compare insurance types and evaluate advantages
Week 13	Mar 8 – Mar 14	Unit IV	Motor, Fire, Marine Insurance – Concepts &	Case Review	Apply knowledge to claim scenarios

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Week(s)	Dates	Unit	Topics Covered	Teaching Method	Learning Outcomes
			Claim Procedure		
Week 14	Mar 15 – Mar 21	Unit IV	Miscellaneous Insurance – Claims	Interactive Q&A	Identify niche insurance types and settlement process
Week 15	Mar 22 – Mar 26	Unit V & Revision	IRDAI – Role, Functions, Duties + Full Revision	Seminar & Quiz	Describe the regulatory framework & reinforce full syllabus

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Lesson Plan:
Banking
Teacher Name: Dr. Md. Aijaz Khan
Semester: VI
Class: BBA BBM BBA AI & DS

Week No.	Dates	Unit	Topics Covered	Teaching Methods	Learning Outcomes
1	Dec 14 – Dec 20	I	Evolution of Commercial Banking in India; Definition of Banker – Customer	Lecture, Discussion	Understand the historical development and define banking terms
2	Dec 21 – Dec 27	I	Functions of RBI and Commercial Banks	Charts, Explanation	Distinguish between RBI and commercial bank functions
3	Dec 28 – Jan 3	I	Emerging role of bankers; Banks in economic development	Case Study, Group Discussion	Analyze the evolving role of banks
4	Jan 4 – Jan 10	I	Reforms in banking sector; Global financial crisis & Indian banking	PPT, Research	Evaluate effects of reforms and global crisis
5	Jan 11 – Jan 17	II	RBI: Constitution, Organisation, Objectives	Lecture, PPT	Explain RBI's structure and aims
6	Jan 18 – Jan 24	II	Functions of RBI; Monetary Policy tools	Activity, Case Analysis	Understand the role of monetary policy
7	Jan 25 – Jan 31	II	Scheduled Banks: PSBs, Private, Foreign, RRBs	Comparison Table, Discussion	Identify different types of commercial banks
8	Feb 1 – Feb 7	II	Cooperative Banks: Urban and State	Charts, Examples	Explain the structure and role of cooperative banks
9	Feb 8 – Feb 14	II	Development Banks: IDBI, NHB, SDBI, EXIM, NABARD, IFCI	Group Presentation	Discuss functions of various development banks
10	Feb 15 – Feb 21	III	Digital Banking: Meaning, Features	Videos, Lecture	Understand digital banking essentials
11	Feb 22 – Feb 28	III	Digital Banking Products: Card types, Features, EMV, NFC, Tap & Go	Demonstration, Chart	Differentiate between card types and technologies
12	Mar 1 – Mar 5	IV	Domestic and Global Payment Systems – Overview	Diagrams, Videos	Describe key payment systems used globally and in India
13	Mar 6 –	IV	IMPS, NUUP, RuPay,	Case Examples,	Explain payment

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Week No.	Dates	Unit	Topics Covered	Teaching Methods	Learning Outcomes
	Mar 10		NACH, AEPS	Lecture	platforms and features
14	Mar 11 – Mar 15	IV	CTS, RTGS, NEFT, POS Terminals – Features and Approval	Real-Time Demo, Discussion	Understand clearing and settlement mechanisms
15	Mar 16 – Mar 20	V	Mobile & Internet Banking – Corporate & Individual	Case Study, Discussion	Analyze usage in personal and corporate contexts
16	Mar 21 – Mar 24	V	E-commerce integration, Cybersecurity, Risk, Blockchain, Crypto	Seminar, Research Activity	Identify frauds, security measures, and new tech
17	Mar 25 – Mar 26	—	**Revision & Clarification of Doubts**	Q&A, Practice Tests	Consolidate learning and prepare for final assessment

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Lesson Plan:
Financial Management

Teacher Name: Dr. Md. Aijaz Khan
Class: BBA AI & DS

Week	Time Frame	Unit & Topics	Teaching Methods	Learning Outcomes
1	June 01 – June 07	**UNIT I**: Concept, Meaning, Definitions of Finance; Relationship with other disciplines	Lecture, Discussion	Understand the meaning, scope, and interrelation of finance
2	June 08 – June 14	Scope of Financial Management; Profit vs. Wealth vs. Value Maximization	Case Study, Group Discussion	Distinguish various goals of financial management
3	June 15 – June 21	Traditional and Modern Approach; Functions of Finance	Chalk & Talk, Q&A	Explain evolution and functions of financial management
4	June 22 – June 28	Objectives of FM; Investment, Financing, Current Assets, Dividend Decision	Lecture with PPT	Apply different financial decisions in management
5	June 29 – July 05	Organization of Finance Function – Structure & Roles	Case Analysis	Describe financial organization and decision-making process
6	July 06 – July 12	**UNIT II**: Concept of Time Value of Money – Compounding, Discounting	Numerical Practice	Calculate future and present values of cash flows
7	July 13 – July 19	Present Value, Future Value, Annuity Concepts	Problem Solving	Solve annuity and value-related problems
8	July 20 – July 26	Capital Budgeting – Meaning, Features, DCF Approach	Lecture, Examples	Explain and evaluate investment decisions
9	July 27 – Aug 02	NPV and IRR Calculation	Hands-on Problems	Compute NPV and IRR for capital projects
10	Aug 03 – Aug 09	**UNIT III**: Sources of Long-term Finance – Equity, Debentures, Loans	Lecture, Case Study	Identify and differentiate various long-term financial sources
11	Aug 10 – Aug 16	Capital Structure – Meaning, Determinants	Discussion, Charts	Understand optimal capital structure
12	Aug 17 – Aug 23	Cost of Capital – Component Costs	Numerical Practice	Calculate specific and overall cost of capital
13	Aug 24 – Aug 30	Weighted Average Cost of Capital (WACC)	Practice Problems	Apply WACC in decision-making
14	Aug 31 – Sep 06	Dividend Policy Decision – Types, Determinants	Case Discussion	Assess factors influencing dividend decisions
15	Sep 07 – Sep 13	**UNIT IV**: Working Capital – Gross vs. Net	Lecture	Clarify concepts and needs of working capital

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Week	Time Frame	Unit & Topics	Teaching Methods	Learning Outcomes
16	Sep 14 – Sep 20	Determinants of Working Capital	Group Activity	Identify practical determinants using real-life examples
17	Sep 21 – Sep 27	Cash Management – Cash Budget (Receipts & Payments Method)	Numerical Demonstration	Prepare a basic cash budget
18	Sep 28 – Oct 04	Cash Management Techniques – Lock Box, Concentration Banking	PPT, Examples	Understand and apply advanced cash techniques
19	Oct 05 – Oct 11	**UNIT V:** Receivables Management – Objectives, Credit Policy	Lecture & Discussion	Explain credit and receivables control strategies
20	Oct 12 – Oct 18	Cash Discount, Ageing Schedule, Debtors Outstanding	Numerical Examples	Analyze debtors using ageing analysis
21	Oct 19 – Oct 25	Inventory Management – ABC, EOQ, Reorder Level, Safety Stock	Practice Problems	Use inventory models to control stock levels

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Lesson plan
Introduction of Data Science

Teacher Name: SM Rawoof
Course Duration: December 14, 2024 – March 25, 2025

Week	Dates	Unit & Topics	Teaching Method	Learning Outcomes
1	Dec 14 – Dec 21	**UNIT I**: Definition, Need, and Jobs in Data Science	Lecture + Discussion	Understand the foundation and career scope of Data Science
2	Dec 23 – Dec 28	Types of Data Science Jobs, Prerequisites (Technical & Non-technical)	PPT + Real-World Cases	Recognize essential skills and job roles in the field
3	Dec 30 – Jan 04	BI vs Data Science, Components, Tools for Data Science	Interactive + Comparison	Distinguish between BI and DS, identify tools and components
4	Jan 06 – Jan 11	ML in Data Science, Solving problems using ML Algorithms	Demo + Case Study	Understand ML's role and problem-solving approach in DS
5	Jan 13 – Jan 18	**Revision + Internal Assessment - I**	Quiz + Recap	Reinforce key concepts of UNIT I
6	Jan 20 – Jan 25	**UNIT II**: DS Lifecycle, Applications, and Facets of Data (Structured, Unstructured, etc.)	Lecture + Examples	Understand lifecycle and data formats used in DS
7	Jan 27 – Feb 01	Natural language, Machine-generated data, Multimedia, Streaming Data	Video Demos + Discussion	Explore different data types and their uses in DS
8	Feb 03 – Feb 08	DS Process: Setting goals, Retrieving, Preparing data	Practical Demonstration	Learn data gathering and preparation techniques
9	Feb 10 – Feb 15	Exploration, Modeling, Presentation & Automation	Hands-on Activities	Execute data exploration and model design basics
10	Feb 17 – Feb 22	**UNIT III**: Python Setup, Toolboxes, IDEs, Libraries	Lab + Code Setup	Set up tools and practice basic operations in Python
11	Feb 24 – Mar 01	Data Operations: Read, Filter, Sort, Group, Plot + Python Basics (Functions, Lists, Strings)	Code-Along + Exercises	Manipulate data and write simple Python functions
12	Mar 03 – Mar 08	Whitespace, Modules, Rearranging, Ranking	Coding Lab	Apply more advanced operations and formatting techniques
13	Mar 10 – Mar 15	**UNIT IV**: Descriptive Statistics, EDA, Data Summarization	Stats Lab + Visuals	Describe data and use EDA to find patterns
14	Mar 17 – Mar 22	Statistical Inference, Supervised Learning, Training-Validation-Test	Lecture + Exercises	Apply supervised learning and evaluate model performance
15	Mar 24 – Mar 25	**UNIT V**: Regression (Linear, Polynomial), Clustering, ML Applications in DS	Final Wrap-up Lab	Implement regression and clustering models, discuss ML's role in DS

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Lesson Plan:

ANALYSIS OF INVESTMENT IN FINANCIAL ASSETS

Teacher Name: MK Faizuddin
Class: BBA BBM & BBA AI &DS

Week	Time Frame	Unit & Topics	Teaching Method	Learning Outcomes
1	Jun 01 – Jun 07	**UNIT I:** Introduction to Investment – Meaning, Definition, Real vs. Financial assets	Lecture, Discussion	Understand the fundamental concepts of investment
2	Jun 08 – Jun 14	Investment vs. Speculation vs. Hedging vs. Arbitraging	Comparative Analysis, Examples	Differentiate investment from speculation and arbitraging
3	Jun 15 – Jun 21	Par Value, Book Value, Market Value, Intrinsic Value of Assets	Case Study, Lecture	Evaluate types of asset values and their importance
4	Jun 22 – Jun 28	Sources of Investment Info; Factors in Decision-making (Liquidity, Risk, Return etc.)	Lecture, Practical Examples	Identify and analyze investment decision factors
5	Jun 29 – Jul 05	Returns: Realized vs. Expected; Risk Concepts and Types	Interactive Class, Numerical Practice	Calculate different types of return and recognize types of risk
6	Jul 06 – Jul 12	Risk Measurement: Range, Standard Deviation, Coefficient of Variation	Problem Solving, Examples	Measure risk using standard deviation & related tools
7	Jul 13 – Jul 19	**UNIT II:** Valuation of Fixed Income Securities – Features & Types	Lecture, Case-Based Learning	Understand types and characteristics of fixed-income securities
8	Jul 20 – Jul 26	Bond Yield Measures: Current Yield, HPR, YTM, AYTM, YTC	Numerical, Examples	Compute yield measures for bonds
9	Jul 27 – Aug 02	Bond Duration, Deep Discount Bond Valuation	Problem Solving	Calculate duration and value deep discount bonds
10	Aug 03 – Aug 09	Bond Price Theorems	Lecture, Application-Based Questions	Interpret bond price behavior
11	Aug 10 – Aug 16	**UNIT III:** Valuation of Common Stock – Features, Meaning	Lecture	Recognize features of common stock
12	Aug 17 – Aug 23	Stock Valuation Models: DDM, Earnings Capitalization, P/E Approach	Case Study, Numerical	Apply models to determine stock value
13	Aug 24 –	Systematic vs. Unsystematic	Analytical	Evaluate and distinguish types

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Week	Time Frame	Unit & Topics	Teaching Method	Learning Outcomes
	Aug 30	Risk, CAPM	Discussion	of risk using CAPM
14	Aug 31 – Sep 06	**UNIT IV:** Basic Portfolio Theory – Concept, Return, Risk	Lecture, Conceptual Analysis	Understand portfolio structure and evaluation
15	Sep 07 – Sep 13	Markowitz Portfolio Theory – Concepts, Assumptions, Pros/Cons	Graphical Approach, Examples	Analyze Markowitz model for diversification
16	Sep 14 – Sep 20	Two-Asset Portfolio Risk and Return, Minimum Risk Portfolio	Numerical Problems	Construct and evaluate minimum risk portfolios
17	Sep 21 – Sep 27	**UNIT V:** Portfolio Evaluation – Measures of Return, Formula Plans	Lecture, Case Studies	Examine portfolio strategies using formula plans
18	Sep 28 – Oct 04	Constant Rupee Value, Constant Ratio, Variable Ratio Plans	Diagram-Based Teaching	Compare different formula investment plans
19	Oct 05 – Oct 11	Rupee Cost Averaging; Sharpe, Treynor, Jensen Measures	Problem Solving, Examples	Evaluate portfolio performance using risk-adjusted returns
20	Oct 12 – Oct 18	Revision: All Units Summary & Application	Q&A, Student Presentations	Integrate and apply knowledge across units
21	Oct 19 – Oct 25	Model Test / Internal Assessment	Test & Feedback Session	Assess preparedness and reinforce understanding

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Lesson Plan – Financial Accounting

Teacher: Humera Firdous

Class: BBM – I Semester

Subject: Financial Accounting

Commencement Date: July 15, 2024

Duration: July 15, 2024 – November 15, 2024

Week	Dates (From – To)	Topic	Sub-topics / Activities	Mode
1	July 15 – July 20	Introduction to Accounting	Meaning, definition, objectives, and importance of Accounting	Lecture + PPT
2	July 22 – July 27	Accounting Concepts and Conventions	Business Entity, Going Concern, Matching, Consistency, Accrual	Discussion
3	July 29 – Aug 3	Accounting Principles & Accounting Standards	Basic Principles – Dual Aspect, Historical Cost, Realization	Case studies
4	Aug 5 – Aug 10	Journal Entries	Format of Journal, Types of Entries	Solving problems
5	Aug 12 – Aug 17	Ledger Posting	Ledger creation, balancing	Practical work
6	Aug 19 – Aug 24	Subsidiary Books	Purchase, Sales, Return Inward/Outward Books	Practice sheet
7	Aug 26 – Aug 31	Trial Balance	Objectives, Format, Errors disclosed/undisclosed	Class exercises
8	Sep 2 – Sep 7	Rectification of Errors	Types of errors – one-sided & two-sided	Examples
9	Sep 9 – Sep 14	Bank Reconciliation Statement (BRS)	Causes of differences, Methods of BRS	Problems
10	Sep 16 – Sep 21	Depreciation Accounting – I	Meaning, Causes, Objectives, Methods (SLM & WDV)	Lecture + Problems
11	Sep 23 – Sep 28	Depreciation Accounting – II	Change in Method, Asset Disposal	Solving sums
12	Sep 30 – Oct 5	Final Accounts – I	Trading and Profit &	Format + Practice

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			Loss Account	
13	Oct 7 – Oct 12	Final Accounts – II	Balance Sheet, Adjustments	Full Problems
14	Oct 14 – Oct 19	Final Accounts with Adjustments	Closing stock, Outstanding expenses, Prepaid incomes etc.	Practice sets
15	Oct 21 – Oct 26	Revision and Problem-solving	Unit-wise recap & Practice	Interactive
16	Oct 28 – Nov 2	Internal Assessment Test	Syllabus: Unit I to IV	Written Test
17	Nov 4 – Nov 9	Project/Assignment Discussion	Group work on accounting applications in real-life businesses	Group Activity
18	Nov 11 – Nov 15	Final Revision + Doubt Clearing	Recap of important questions and clarification	Q&A Sessions

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Lesson Plan:
Business Intelligence and Data Visualization (Semester VI)

Teacher Name: ZainabUnnissa Naheed
Classes: BBA BBM & BBA AI&DS

Unit No.	Topics Covered	Time Frame (From–To)	Teaching Methods	Learning Outcomes
UNIT I	**Introduction to Business Intelligence**Definition, Historical Perspective, BI Architecture (Data Warehouse, Business Analytics, BPM, UI), BI Analysis Cycle	Dec 14 – Dec 28	Lecture, PPT, Case Discussion	Understand fundamentals of BI; Explain BI architecture and cyclical process
UNIT II	**Data Visualization Concepts**History and concepts, Importance for business, Types of Charts, Dashboards, Emergence of Visual Analytics	Dec 30 – Jan 13	Demonstration, Group Discussion, Case Studies	Understand the significance of data visualization; Recognize different visualization types
UNIT III	**Data Visualization with Tableau (Part 1)**Connecting to data sources (Excel, Access, Text), Merging sources, Univariate, Bivariate, Multivariate Charts, Maps	Jan 15 – Feb 5	Hands-on Lab Sessions, Tutorial Videos	Connect Tableau to various sources; Design charts and maps using Tableau
UNIT IV	**Tableau (Part 2): User Defined Fields**Logical functions, Calculated fields, Aggregates, Discretization, Text manipulation	Feb 6 – Feb 24	Practical Exercises, Guided Lab, Case Analysis	Create calculated fields; Apply logic to transform and analyze data
UNIT V	**Tableau (Part 3): Customization and Dashboards**Customization, Annotations, Selectors, Sliders, Dashboards, Animations	Feb 25 – Mar 15	Lab Projects, Student Presentations, Peer Review	Design dynamic dashboards; Apply interactivity and presentation features
Revision & Project Submission	Final Project Submission, Evaluation, Q&A	Mar 16 – Mar 26	Presentations, Viva, Review	Showcase complete understanding via a business dashboard project

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Lesson Plan

Business Correspondence and Communication

Class: BBM II Semester
Name of the Teacher: **Ms. Humera Firdous**
Class Commencement Date: **14 December 2024**
Mode: Classroom / Interactive Sessions
Duration: Approximately 12-14 Weeks

Week No.	Time Frame (From – To)	Unit & Topics Covered	Teaching Methodology	Learning Outcomes
1	14 Dec – 20 Dec 2024	**UNIT I: INTRODUCTION**• Introduction to Communication• Understanding Workplace Communication	Lecture, Discussion, Case Examples	Understand the basics and significance of effective communication in workplace.
2	21 Dec – 27 Dec 2024	• Communicating across Cultures• Importance of Business Correspondence	Role Play, Group Discussion	Learn cultural aspects and role of business correspondence.
3	28 Dec – 03 Jan 2025	• Communication & Organizational Effectiveness• Perception & Conception• Formal & Informal Communication Systems	Diagrams, Lecture, Brainstorming	Differentiate formal/informal systems and explore perception in communication.
4	04 Jan – 10 Jan 2025	**UNIT II: REPORT WRITING & BUSINESS LETTERS**• What is a Report?• Importance and Types of Reports	Samples, Workshop	Understand formats, types, and purposes of reports.
5	11 Jan – 17 Jan 2025	• Characteristics & Structure of Reports• Format of Business Letters	Activity-Based, Templates, Writing Practice	Apply structured report writing and business letter formatting.
6	18 Jan – 24 Jan 2025	• Types of Business Letters• Writing Cover Letters, Enquiry, Offer, Order, Purchase and Complaint Letters	Practical Writing Sessions	Draft different types of professional business letters.
7	25 Jan – 31 Jan 2025	**UNIT III: INTERVIEW, GD & MEETINGS**• Writing Job Applications• Preparing CVs	Resume Workshop, Mock Interviews	Develop job applications, resumes and prepare for interviews.
8	01 Feb – 07 Feb 2025	• Preparing for Interviews & Group Discussion	GD Practice, Interview Simulation	Exhibit skills in group discussions and interviews.
9	08 Feb –	• Types & Importance of	Mock Meetings,	Conduct meetings and

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Week No.	Time Frame (From – To)	Unit & Topics Covered	Teaching Methodology	Learning Outcomes
	14 Feb 2025	Meetings• Developing Agendas• Writing Minutes of Meetings	Minute Writing Exercises	record minutes effectively.
10	15 Feb – 21 Feb 2025	**UNIT IV: COMMUNICATION PROCESS**• Role and Process of Communication• Barriers to Communication	Concept Mapping, Case Analysis	Identify communication barriers and strategies to overcome them.
11	22 Feb – 28 Feb 2025	• Types of Communication• Listening Process & Elements of Good Listening• Improving Listening Competence	Listening Tests, Peer Feedback	Develop effective listening and feedback skills.
12	01 Mar – 07 Mar 2025	• Importance of Feedback• Principles of Feedback	Role Play, Video Analysis	Apply principles of feedback in business scenarios.
13	08 Mar – 14 Mar 2025	**UNIT V: NON-VERBAL COMMUNICATION & NEGOTIATION**• Characteristics & Types of Non-Verbal Communication	Visual Aids, Group Tasks	Understand and interpret non-verbal communication.
14	15 Mar – 21 Mar 2025	• Functions & Interpretation of Non-Verbal Cues• Approaches to Negotiation• Preparing & Conducting Negotiations	Negotiation Simulations	Conduct successful business negotiations using verbal and non-verbal strategies.

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Lesson Plan:

Business Statistics

Teacher: Zainab Unnissa Naheed

Class: BBA BBA AI& DS & BBM – II Semester

Unit	Topics Covered	Time Frame (From–To)	Teaching Method	Learning Outcomes
Unit I Introduction to Statistics	Definitions – Statistical Methods – Importance, Scope & Limitations – Need for Data – Principles of Measurement – Tabulation and Presentation – Classification of Data – Frequency Distribution – Objectives & Parts of Tabulation – Graphical Presentation – Functions, Advantages, and Limitations of Graphs	Dec 14 – Dec 31, 2024	Lecture, PPTs, Examples, Class Discussion	Understand fundamental concepts of statistics and data organization.
Unit II (Part A) Measures of Central Tendency	Mean – Combined Mean – Weighted Mean – Median – Quartiles – Deciles – Percentiles – Mode – Relationship between Mean, Median & Mode	Jan 2 – Jan 15, 2025	Explanation with Problems, Charts, Exercises	Apply and interpret various averages and partition values.
Unit II (Part B) Measures of Dispersion & SK	Range – QD – MD – SD (Grouped/Ungrouped) – Coefficient of Variation – Skewness – Kurtosis – Moments – Relative Measures – Advantages/Disadvantages	Jan 16 – Jan 31, 2025	Problem Solving, Group Activities, Real-life Data	Analyze and compare data variation and distributions.
Unit III Index Numbers	Introduction – Types – Construction (Weighted/Unweighted) – Price & Quantity Index – Tests (Time, Factor, Circular) – Fixed & Chain Base – Consumer Price Index – Problems in Construction	Feb 1 – Feb 12, 2025	Graphical Method, Practical Exercises, Assignments	Construct and interpret various index numbers and understand their use in economics.
Unit IV Probability	Probability: Concepts – Random Experiment –	Feb 13 – Mar	Lecture, Demonstration, Solved	Grasp probability

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Unit	Topics Covered	Time Frame (From–To)	Teaching Method	Learning Outcomes
& Sampling	Sample Space – Definitions – Simple Problems – Theorems (Addition, Multiplication, Conditional) – Joint & Marginal ProbabilitySampling: Population – Sample – Parameter – Statistic – Sampling Methods – Validity – Sampling Distribution – Standard Error	3, 2025	Examples	fundamentals and perform basic statistical sampling techniques.
Unit V Correlation & Regression	Scatter Diagram – Positive & Negative Correlation – Karl Pearson's & Spearman's Correlation – Regression Analysis – Least Square Fit – Regression Lines – Properties of Regression Coefficients	Mar 4 – Mar 20, 2025	Case Studies, Correlation/Regression Computation, Diagrams	Examine and interpret relationships between variables.
Revision & Internal Assessment	Complete Syllabus Revision, Solving Model Questions, Recap of Formulas & Concepts	Mar 21 – Mar 31, 2025	Quizzes, Revision Worksheets, Practice Tests	Reinforce learning and prepare for examinations.

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Lesson Plan: Human Resource Management – Semester III

Name of the Teacher: ZainabUnnissa Naheed
Classes; BBA, BBM & BBA AI & DS

Week	Dates	Unit & Topics	Teaching Methods	Learning Outcomes
1	Jun 01 – Jun 07	UNIT I: Introduction to HRM – Concept, Meaning, Definition, Nature, Scope	Lecture, Whiteboard, Discussion	Understand basic concepts and scope of HRM
2	Jun 08 – Jun 14	Objectives of HRM, Functions of HRM, HRM in the New Millennium	PPT, Class Interaction	Identify the objectives and functional areas of HRM
3	Jun 15 – Jun 21	Managerial vs. Operative Roles, Personnel Mgmt vs. HRM	Comparative Table, Real-life Examples	Differentiate between personnel and HR management roles
4	Jun 22 – Jun 28	Strategic Mgmt Approach, Globalization in HR Policy & Practice	Group Discussion, Article Review	Recognize impact of globalization on HR policies
5	Jun 29 – Jul 05	UNIT II: HR Planning, Job Analysis & Design	Charts, Planning Templates	Gain knowledge of planning and structuring job roles
6	Jul 06 – Jul 12	Job Description, Specification, Evaluation	Worksheets, Sample Documents	Develop job-related documentation skills
7	Jul 13 – Jul 19	Job Restructuring, Rotation, Enlargement, Enrichment	Role Play, Case Analysis	Explain job design and enrichment techniques
8	Jul 20 – Jul 26	Recruitment & Selection, Placement, Induction	Guest Lecture, Resume Screening	Understand the hiring process and employee onboarding
9	Jul 27 – Aug 02	Line and Staff Roles in HR	Group Presentation, Chart	Analyze the distinction between line and staff responsibilities
10	Aug 03 – Aug 09	UNIT III: Training – Introduction, Meaning, Importance	Case Study, Training Videos	Appreciate the importance and purpose of employee training
11	Aug 10 – Aug 16	Assessing Training Needs, Designing Programmes	Design Task, Scenario Analysis	Design a basic employee training program
12	Aug 17 – Aug 23	Orientation, Career Planning and Development	Peer Activity, Diagrams	Understand employee orientation and career development processes

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Week	Dates	Unit & Topics	Teaching Methods	Learning Outcomes
13	Aug 24 – Aug 30	Productivity & Career Planning Impact	Reflection Activity, Quiz	Assess the impact of career planning on employee performance
14	Aug 31 – Sep 06	UNIT IV: Workmen's Compensation Act, Definitions, Employer's Liability	Legal Briefing, Case Examples	Understand legal framework for employee compensation
15	Sep 07 – Sep 13	Industrial Disputes Act – Guidelines	Law Summary, Debate	Learn methods for resolving industrial conflicts
16	Sep 14 – Sep 20	Standing Orders, Labour Relations, Collective Bargaining	Role Play (Union vs Management)	Explain the role of collective bargaining and employee relations
17	Sep 21 – Sep 27	Employee Health and Safety	Video Analysis, Discussion	Understand importance of workplace safety
18	Sep 28 – Oct 04	UNIT V: Performance Appraisal – Methods and Need	Appraisal Forms, Evaluation Role Play	Identify various performance evaluation techniques
19	Oct 05 – Oct 11	MBO, 360-Degree Appraisal, Organization Climate	Group Discussion, Case Review	Explore organizational tools for performance appraisal and climate assessment
20	Oct 12 – Oct 18	Organization Culture, QWL, Impact on Climate	Audit Tool, Group Report	Understand culture and quality of work life in HRM
21	Oct 19 – Oct 25	**Revision & Internal Assessment**	Model Paper, Viva, Summary Activities	Review and consolidate all HRM topics

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Lesson Plan:
Python Programming

Teacher Name: SM Rawoof

Course Duration: June 01, 2024 – October 25, 2024

Week	Dates	Unit	Topics to be Covered	Teaching Method	Learning Outcomes
1	Jun 01 – Jun 07	I	Fundamentals of Computing, Computing Devices	Lecture, PPT	Understand components and functioning of computers
2	Jun 08 – Jun 14	I	Identification of Computational Problems, Pseudo Code and Flowcharts	Board work, Examples, Class activity	Identify problems and represent them using pseudo code and flowcharts
3	Jun 15 – Jun 21	I	Algorithms, Instructions, Building Blocks of Algorithms	Problem solving, Group exercises	Build and explain algorithms for simple problems
4	Jun 22 – Jun 28	I	Python Intro, Interpreter, Variables, Identifiers, Arithmetic Operators	Lab session, Hands-on	Learn basic Python syntax and operations
5	Jun 29 – Jul 05	I	Values and Types, Reading Input, Print Output, Type Conversions, type(), is	Hands-on Lab	Work with input/output, types and conversions
6	Jul 06 – Jul 12	I	Control Flow: if, if-else, nested if	Code walkthrough, Exercises	Use decision control in Python
7	Jul 13 – Jul 19	I	Loops: while, for, break, continue	Practice Lab	Implement iteration in Python
8	Jul 20 – Jul 26	II	Built-In Functions, Modules, Function Definition, return, void Functions	Demo + Lab	Define and call functions, import modules
9	Jul 27 – Aug 02	II	Scope, Lifetime, Default/Keyword Args, *args, **kwargs, Command Line Args	Coding examples	Understand function parameters and scope
10	Aug 03 – Aug 09	II	Strings: creation, operations, indexing, slicing	Exercises, Practice	Perform string manipulation
11	Aug 10 – Aug 16	II	String Methods, Formatting Strings	Code practice, Assignments	Use built-in string methods effectively
12	Aug 17 – Aug 23	III	Lists: operations, slices, methods, mutability, cloning	Coding Lab	Work with and manipulate lists
13	Aug 24 – Aug 30	III	Tuples and Dictionaries: operations, methods	Lecture + Lab	Understand tuples and dictionaries usage

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14	Aug 31 – Sep 06	III	List Comprehension, Programs on sorting, histogram	Algorithm implementation	Implement advanced list techniques
15	Sep 07 – Sep 13	IV	Files: reading, writing, format operator	Hands-on Lab	Handle file I/O in Python
16	Sep 14 – Sep 20	IV	Errors and Exceptions, Exception Handling	Practical exercises	Detect and handle runtime errors
17	Sep 21 – Sep 27	IV	Modules and Packages, Programs (word count, copy file)	Code implementation	Use and organize code into modules
18	Sep 28 – Oct 04	V	OOP: Classes, Objects, Constructors, Class vs Data Attributes	OOP examples	Create and use classes and objects
19	Oct 05 – Oct 11	V	Encapsulation, Inheritance, Polymorphism	Code and Diagram Explanation	Apply OOP principles in Python
20	Oct 12 – Oct 18	V	Functional Programming: Lambda, Iterators, Generators, List Comprehension	Mini Projects	Understand and use functional constructs
21	Oct 19 – Oct 25	-	Revision and Final Assessments	Quiz, Viva, Coding Test	Reinforce all concepts and assess understanding

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Lesson Plan: Financial Markets and Services

Teacher Name: MK Faizuddin
Semester: III
Class: BBA BBM & BBA AI & DS

Week No.	Dates (From–To)	Unit & Topics Covered	Teaching Method	Learning Outcomes
1	June 01 – June 07	**UNIT I**: Introduction to Indian Financial System – Components and Functions	Lecture, Chalk & Talk	Understand the basic components and role of the Indian Financial System
2	June 08 – June 14	Flow of Funds Matrix – Financial System & Economic Development	Diagrammatic Explanation	Analyze fund flows and their link to economic development
3	June 15 – June 21	Structure & Functions – Types of Financial Markets – Securities traded	PPT, Group Discussion	Classify various financial markets and their traded instruments
4	June 22 – June 28	Regulatory Institutions – RBI and SEBI – Functions	Case Study, Lecture	Distinguish between regulatory bodies and understand their functions
5	June 29 – July 05	Overview of Global Financial Markets	Comparative Analysis	Gain insight into international financial systems
6	July 06 – July 12	**UNIT II**: Introduction to Money Market – Functions – Organization	Lecture with examples	Describe the structure and players of the money market
7	July 13 – July 19	Dealers & Instruments in Money Market	Group Activity	Identify major dealers and types of money market instruments
8	July 20 – July 26	Primary Market – Concepts – Book Building, Free Pricing, Underwriting	Lecture & Video Demo	Understand the mechanism of the primary market
9	July 27 – Aug 02	Online IPOs – e-Prospectus – Role in Capital Formation	ICT-based teaching	Examine modern IPO practices and e-filing procedures
10	Aug 03 – Aug 09	Secondary Market – Structure – NSE, BSE, OTCEI	Field Visit/Virtual Tour	Compare major Indian stock exchanges and their functioning

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Week No.	Dates (From–To)	Unit & Topics Covered	Teaching Method	Learning Outcomes
11	Aug 10 – Aug 16	Listing of Securities – Trading, Settlement – Internet Trading	Practical Demo	Explain listing procedure and online trading
12	Aug 17 – Aug 23	New Financial Instruments in Capital Market	Case Discussion	Identify and evaluate innovative instruments
13	Aug 24 – Aug 30	**UNIT III**: Leasing – Concepts, Classification, Advantages and Limitations	PPT, Case Study	Differentiate types of leasing and evaluate its pros and cons
14	Aug 31 – Sep 06	Hire Purchase – Mechanism – Comparison with Leasing	Comparative Table Method	Understand Hire Purchase and compare it with leasing
15	Sep 07 – Sep 13	Venture Capital – Definition, Rationale, Stages	Lecture, Example Analysis	Comprehend the importance and stages of Venture Capital financing
16	Sep 14 – Sep 20	**UNIT IV**: Credit Rating – Factoring – Forfeiting	Presentation & Discussion	Learn key non-fund services and their functioning
17	Sep 21 – Sep 27	Merchant Banking – Definition, Features, Mechanism & Types	Lecture, Role Play	Understand types of merchant banking services
18	Sep 28 – Oct 04	**UNIT V**: Mutual Funds – Concept, Definitions, History, Classifications	Lecture, Chart-based Analysis	Learn about mutual fund types and historical background
19	Oct 05 – Oct 11	NAV Calculation – MF Operations – Functions of AMC	Numerical Exercises	Calculate NAV and understand AMC roles
20	Oct 12 – Oct 18	Evaluating Mutual Funds – Risk & Return Analysis	Group Assignment	Evaluate and compare mutual fund schemes
21	Oct 19 – Oct 25	**Revision & Internal Assessment/Model Test**	Quiz, Class Test	Recap of all units, prepare for semester-end exam

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Lesson Plan:
Business Law

Teacher Name: ZainabUnnissa Naheed
Semester: III
Duration: June 01, 2024 – October 25, 2024

Dates	Unit & Topics	TeachingMethod	Learning Outcomes
June 1 – June 14	UNIT I: Introduction to Law of Contracts • Development of Business Law • Law in Independent India • Definition of Contract & Agreement	Lecture, Case Studies	Understand historical context and basic contract concepts
June 15 – June 28	• Classification of Contracts • Essentials of valid contract	Chalk & Talk, PPT	Identify various types of contracts and elements of a valid contract
July 1 – July 12	• Offer, Acceptance, Consideration • Capacity to Contract	Lecture, Examples	Explain offer-acceptance process and legal capacity
July 15 – July 19	• Free Consent, Void Contracts • Legality of Object	Discussion, Legal Judgments	Differentiate between valid and void agreements
July 22 – July 26	• Performance and Breach • Remedies for breach	Case Analysis	Identify remedies for breach of contract
July 29 – Aug 2	• Discharge of Contract • Quasi Contracts	Group Discussion, Quizzes	Understand how contracts are discharged and quasi-contracts formed
Aug 5 – Aug 16	UNIT II: Special Contracts • Agency, Bailment, Pledge • Indemnity and Guarantee	Lecture, Real-life Examples	Understand rights and duties under special contracts
Aug 19 – Aug 30	• Sale of Goods Act – Sale, Agreement to Sell • Conditions and Warranties • Caveat Emptor	Case Laws, Charts	Differentiate between types of sales and legal principles
Sept 2 – Sept 6	• Transfer of Ownership • Sale by Non-Owners • Rights of Unpaid Seller	Lecture, Problem Solving	Identify the rights of sellers and implications of ownership transfer
Sept 9 – Sept 20	UNIT III: Companies Act • Introduction, Characteristics, Classification • Formation of Company	Lecture, Case Study	Understand company formation and types
Sept 23 – Sept 27	• MOA, AOA, Prospectus • Shareholder & Board Meetings	Presentation, Diagrams	Distinguish company documents and meeting types
Sept 30 – Oct 4	• Directors: Appointment, Powers, Legal Position • M.D., Chairman, Board	Role Play, Discussion	Learn corporate governance roles and structure
	• Winding up of Company	Case Study	Understand process

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Oct 7 – Oct 11			and reasons for winding up
Oct 14 – Oct 18	UNIT IV: Consumer Protection & Essential Commodities Act • Consumer Protection Councils • Rights & Redressal Agencies	Legal Provisions, Case Study	Learn consumer rights and redressal mechanisms
Oct 21 – Oct 23	• Pollution Control Law • Essential Commodities Act – Penalties & Punishment	Discussion, Examples	Understand laws for environmental and essential goods regulation
Oct 24 – Oct 25	UNIT V: Business Ethics • Ethics & Values in Business • Social Responsibility • Fair Practices and Integrity	Group Activity, Ethical Dilemmas	Appreciate the relevance of ethics in business decisions

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Lesson Plan:
Marketing Research

Teacher Name: Humera Firdous

Course Duration: December 14, 2024 – March 25, 2025

Class : BBA,

Week	Dates	Topics Covered	Teaching Method	Learning Outcomes
1	Dec 14 – Dec 21, 2024	Introduction to Marketing Research – Nature & Scope of Marketing Research	Lecture + Discussion	Understand definition, nature and scope of MR.
2	Dec 23 – Dec 28, 2024	Role of Marketing Research in Decision Making – The Research Process	Case Study + PPT	Identify how MR supports business decisions.
3	Dec 30, 2024 – Jan 4, 2025	Steps in Research Process – Designing the Research Proposal	Activity + Group Work	Outline research steps and draft basic research proposals.
4	Jan 6 – Jan 11, 2025	Sources of Data: Primary vs Secondary – Survey Method	Lecture + Q&A	Differentiate between data types; understand survey use.
5	Jan 13 – Jan 18, 2025	Observation Method – Types of Observation – Interview Method	Role Play + Demo	Explain observation & interview techniques.
6	Jan 20 – Jan 25, 2025	Questionnaire Method – Steps in Designing Questionnaire – Schedule vs Questionnaire	Workshop	Design sample questionnaire; differentiate tools.
7	Jan 27 – Feb 1, 2025	Advantages & Disadvantages of Secondary Data – Evaluation Criteria	Lecture + Case Analysis	Evaluate credibility of secondary data.
8	Feb 3 – Feb 8, 2025	Secondary Data Sources in Indian Context	Internet Activity	Identify Indian sources for secondary data.
9	Feb 10 – Feb 15, 2025	Measurement & Scaling Concepts – Types: Nominal, Ordinal, Interval, Ratio	Charts + Examples	Explain scales and apply to scenarios.
10	Feb 17 – Feb 22, 2025	Attitude Scales: Thurstone, Likert, Semantic Differential	Group Activity	Apply attitude scales in research situations.
11	Feb 24 – Mar 1, 2025	Reliability and Validity of a Scale	Explanation + Quiz	Understand and assess measurement quality.
12	Mar 3 – Mar 8, 2025	Sampling – Benefits, Techniques, Distribution, Standard Error	Lecture + Examples	Explain sampling importance and errors.
13	Mar 10 – Mar 15, 2025	Hypothesis Testing: Type I & II Errors –	Problem Solving	Distinguish between error types and tails in

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		One-tailed vs Two-tailed tests		tests.
14	Mar 17 – Mar 22, 2025	Sampling Techniques – Z-test (mean, diff. of mean, proportions), t-test (mean), paired t-test	Hands-on Practice	Apply statistical tests to large and small samples.
15	Mar 24 – Mar 25, 2025	Chi-Square Test – Theoretical Concept of ANOVA – Revision	Revision + MCQs	Differentiate between tests and apply in project scenarios.

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Lesson Plan:

INTRODUCTION TO DATA SCIENCE

Teacher Name: SM Rawoof
Course Duration: June 01, 2024 – October 25, 2024 (Semester III)

Week	Dates	Unit & Topics	Teaching Method	Learning Outcomes
1	June 01–08	**UNIT I**: Definition of Data Science, Need for Data Science, Data Science Jobs	Lecture + Discussion	Understand basic concepts, scope, and opportunities in Data Science
2	June 10–15	Types of Data Science Jobs, Prerequisites (Technical and Non-technical)	PPT + Real-world Cases	Identify job roles and skills required for each role
3	June 17–22	Difference between BI and Data Science, Components of Data Science	Comparison + Q&A	Differentiate BI and Data Science, recognize major components
4	June 24–29	Tools for Data Science, ML in Data Science, Solving problems using ML algorithms	Demos + Case Studies	Identify tools and understand ML's role in Data Science problem solving
5	July 01–06	**Revision + Internal Assessment - I**	Quiz + Recap	Reinforce UNIT I concepts
6	July 08–13	**UNIT II**: Data Science Lifecycle, Applications of Data Science	Lecture + Industry Cases	Understand DS lifecycle and real-life applications
7	July 15–20	Facets of Data: Structured, Unstructured, Natural Language, Machine-generated Data	Interactive + Examples	Distinguish types of data used in Data Science
8	July 22–27	Graph-based, Audio, Image, Video, Streaming data	Media Demos + Exercises	Learn multimedia and networked data formats
9	July 29–Aug 03	Data Science Process: Goal setting, Retrieving & Preparing data	Hands-on Task	Understand how to start and collect data for a DS project
10	Aug 05–10	Data Exploration, Modeling, Presentation & Automation	Group Activities	Perform exploratory tasks and basic model building
11	Aug 12–17	**UNIT III**: Intro to Toolboxes, Python & Fundamental Libraries	Lab Session	Set up Python IDE and practice library usage
12	Aug 19–24	Data Operations: Reading, Filtering, Manipulating, Sorting	Lab Practice	Conduct basic data manipulation in Python
13	Aug 26–31	Grouping, Rearranging, Ranking, Plotting, Whitespace Formatting	Practical Demos	Learn grouping and visualization techniques
14	Sep 02–07	Python Modules, Functions, Strings, Lists	Code-Along Sessions	Create simple functions and use data structures
15	Sep 09–14	**Internal Assessment - II + Revision**	Quiz + Coding Task	Assess UNIT II & III knowledge
16	Sep 16–21	**UNIT IV**: Descriptive statistics, Data prep, EDA, Summarization	Hands-on + Discussion	Describe, clean, and summarize data
17	Sep 23–	Distribution, Asymmetry,	Stats Exercise	Measure data distribution and,

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Week	Dates	Unit & Topics	Teaching Method	Learning Outcomes
	28	Sample/Estimated Mean, Variance, Standard Score		calculate statistical scores
18	Sep 30–Oct 05	Statistical Inference, Frequency, Variability, Supervised Learning, Curves	Lecture + Plotting Lab	Build understanding of inference and supervised learning basics
19	Oct 07–12	Train-Validation-Test, Evaluation	Demos + Mini Projects	Design model evaluation workflow
20	Oct 14–19	**UNIT V**: Regression (Linear, Multiple, Polynomial)	Regression Coding Lab	Apply regression models on datasets
21	Oct 21–25	Unsupervised Learning, Clustering, ML in DS process	Lab + Course Wrap-up	Implement clustering and understand ML applications in DS

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Lesson Plan: R Programming
Teacher Name: SM Rawoof

Week No.	Dates (From–To)	Unit & Topics Covered	Teaching Method	Learning Outcomes
1	June 01 – June 07	**UNIT I**: Introduction, History & Features of R, Installing R and RStudio, Loading Packages	Lecture + Demo	Understand R environment, history and installation process
2	June 10 – June 14	How R Works, Basic Syntax, Variables, Online Help, Numeric Operations	Hands-on + Examples	Apply basic syntax and perform calculations
3	June 17 – June 21	Arithmetic Operations, Assigning Objects, Creating Vectors	Interactive Lab	Use variables and vectors effectively
4	June 24 – June 28	**UNIT II**: Operators in R (Arithmetic, Logical, Relational, Assignment)	Lecture + Problem Solving	Apply operators for logical and numerical operations
5	July 01 – July 05	R Keywords, Data Types (numeric, integer, logical, complex, character, raw)	Lecture + Practice	Identify and use R data types
6	July 08 – July 12	Taking Input using `readline()` and `scan()`	Lab-based Teaching	Accept user input in R
7	July 15 – July 19	Output in R: `print()`, `sprintf()`, `message()`, Writing to File	Hands-on Exercises	Generate formatted output and write to files
8	July 22 – July 26	**UNIT III**: Control Statements: if, if-else, for loop	Practical Application	Use conditional and iterative structures
9	July 29 – Aug 02	While Loop, Repeat Loop, Nested Loops	Code Lab + Examples	Construct advanced loops
10	Aug 05 – Aug 09	Break, Next, Return, Switch-case	Lab Practice	Control execution flow using advanced statements
11	Aug 12 – Aug 16	Writing Simple Programs Using Control Flow	Mini Project	Build small control-based programs
12	Aug 19 – Aug 23	**UNIT IV**: Functions in R: Built-in and User-defined	Lecture + Demo	Create and use different types of functions
13	Aug 26 – Aug 30	Parameters in Functions, Calling Functions	Practical	Understand scope and parameter passing
14	Sept 02 – Sept 06	Built-in Functions: Mathematical, Statistical, File I/O, Data Manipulation	Lab-based Learning	Use built-in functions for data and file operations
15	Sept 09 – Sept 13	**UNIT V**: R Strings, Vectors, Lists	Lecture + Practice	Work with string and list data types
16	Sept 16 – Sept 20	Data Frames, Matrices, Arrays	Demonstration + Lab	Manipulate structured data types
17	Sept 23 – Sept 27	Packages & Repositories, File Handling	Hands-on Practice	Manage libraries and files in R
18	Sept 30 – Oct 04	Basic Data Visualization Techniques (Plots, Charts)	Demo + Application	Create basic visualizations using R
19	Oct 07 – Oct 11	Summary & Revision of Units I–III	Recap + Discussion	Consolidate understanding of initial units
20	October 14 – October 18	Summary & Revision of Units IV–V	Recap + Problem Solving	Review functions and data structures with practice
21	Oct 21 – Oct 25	Final Practical Review / Internal Assessment	Lab Test / Assessment	Assess overall programming ability in R

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: General Microbiology and Microbial physiology **Paper: I**

Class: Microbiology (P.G.) **Name of the Faculty: Dr. Sreedhar Bhattar**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1	4 hrs No. of classes 30 Dates:- 23-10-24 to 16-12-24	To study about the history and scope of microbiology, contributions of scientist and Microscopy. Microbial cell culture of prokaryotic and eukaryotic cell & Microbial Identification	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests & activities.	On completion of this unit, students will be able to • Understand the meaning, definition and scope of microbiology. • To know the history and contributions of various scientist in the field of microbiology. • Understand the concept of microscopy • Learn prokaryotic and eukaryotic cell structure. • Bacterial endospore structure, biochemistry and genetic sporulation. • Learn techniques to identify the microbes.
Unit II:	4 hrs No. of classes 30 Dates:- 17-12-24 to 24-12-24	To study the principles of bacterial taxonomy and classification, microbial growth, their cell cycle and generation time. To study the various growth phases of bacteria and	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests and activities	On completion of this unit, students will be able to • Learn principles of bacterial taxonomy and can classify bacteria. • Learn various concepts of microbial growth and cell cycle in microbes and generation time. • Comprehend factors influencing growth

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Unit III: Variation in chromosomal number	4 hrs 18 24/10/24 to 14/11/24	To study Mutations, chromosomal aberrations, & inherited human diseases.	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the concept of mutations and molecular basis of gene mutations • Know about chromosomal aberrations. • Learn about chromosomal abnormalities in humans. • Explain inherited human diseases
Unit IV: Principles of Diseases and Epidemiology	4 hrs 16 18/11/24 to 20/12/24	To study about the human diseases caused by microorganisms and epidemiology	White Board, black board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn about the relationship between normal microbiota and host, opportunistic microorganisms. • Understand about bacterial and fungal diseases • Comprehend gastrointestinal tract and urinary tract infections • Know about the general characteristics of viruses

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DEPARTMENT OF MICROBIOLOGY
M.Sc. Microbiology, Academic year- 2024-2025

Subject: Virology **Paper: II**

Class: Microbiology (P.G.) **Name of the Faculty: Ms. Fehmida Begum**

Topic/Unit	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs. classes 30. 26/10/24 to 26/10/24	To study the History of virology, classification and nomenclature of virus. Virus metadata resource & viral metagenomics. To study, detection of viruses by physical, biological, immunological and serological method. Plant and animal viruses. Study abut subviral particles.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn history of virology. • Viral classification and nomenclature of viruses. • Virus structure and morphology. • Virus metadata resource & viral metagenomics • Detection of viruses by physical, biological, immunological, serological and molecular methods. • Propagation, purification, isolation, characterization, identification and quantification of bacteriophages • plant viruses and animal viruses. • Evolutionary importance of virus. • Characterization of RNA-DNA hybrid virus
Unit II	4 hrs 31	To study the Virus replication Strategies. viral-host interaction, Host	Black board, white	Students are assessed by asking questions during the	On completion of this unit, students will be able to • Understand Virus replication Strategies

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	28/11/24 to 21/12/24	response to viral infection Cellular interactions. Comparision of Lytic cycle and lysogeny cycle. Morphology, Ultrastructure, Genome organization and Replication strategies of Group I, II, III, IV, V, and VI.	board and projector	class and by conducting weekly tests	Principal events involved in replication. • Comparision of Lytic cycle and lysogeny cycle (T2 Bacteriophage, Lambda). • Morphology, Ultrastructure, Genome organization and Replication strategies of Adenovirus, Banana bunchy top virus, Reovirus, TMV, Influenza virus, HIV, HBV, SARS COV2 and its vaccination
Unit III	4 hrs 29 23/12/24 to 4/02/25	To Study Recombination in phages, Tumor virus, Viral Interference and Interferons, Antiviral agents. To study the importance of viral vaccines AI integrated	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn recombination in phages, multiplicity reactivation and phenotypic mixing • Understand general concept of Tumor virus (RNA and DNA). • Learn viral Interference and Interferons. Nature, source and Classification of interferons. • Learn in details about antiviral agents (chemical and biological) and their mode of actions

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Research Methodology & Techniques **Paper: III**

Class: Microbiology **Name of the Faculty: Dr. Majid Mohiuddin**

Topic/Unit	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit	4 hrs 28 28/10/24 to 30/11/24	To study and understand Optical methods, Electrophoretic techniques and application. To study Chromatographic techniques, Diffusion, dialysis, cell disruption methods, centrifugation techniques, cell free extracts and their use in metabolic studies. Radio isotopes detection and measurement and its applications. Biosensor.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand colorimetry, spectrophotometry, fluorimetry, optical rotation Circular dichroism, NMR, ESR spectroscopy, x-ray diffraction, types of mass spectrometry. • Electrophoretic techniques and application- agarose gel electrophoresis and SDS PAGE, counter current distribution. • Understand Chromatographic techniques. • Diffusion, dialysis, cell disruption methods, centrifugation techniques, cell free extracts and their use in metabolic studies. • Radio isotopes detection and measurement, scintillation counters, autoradiography, stable isotopes and their use. • Safety precautions.

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					• General method of study of intermediary metabolism in microbes. • Uses of mutants in study of metabolism. • Biosensor and its application
Unit II	4 hrs 30 02/12/24 to 13/01/25	To study Biostatistics in detail. To study the distribution and its types. Curve test, t-test, F- test, ANOVA, DMRT, Demography and experimental designs using statistical tools. New tools, AI based, Python & Excel	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn about Population, samples and sampling procedures, variables, variations and frequency distributions, measures of central tendency and dispersion, element of probability, gausian or normal distribution, binomial distribution, poisson distribution, 't' distribution, 'F' distribution and Chisquare distribution, correlation and linear regression. • Know normal curve test, 't' test, 'F' test, ANOVA, analysis of covariance, Chi-square test, and confidence intervals. • Understand DMRT and its use in biological experiments. • Understand Experimental designs using statistical tools.
Unit III	4 hrs 32 17/2/25 to 8/3/25	To study basics of computers, DOS, windows, data collection. To study data collection, representation, manuscript preparation, plagiarism & research ethics. Moreover, to study GMP, QA, QC and	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the concept and basics of Computers • Learn Disk operating systems (DOS): Sample commands, DIR-CD-RD-DEL-COPYMOVE-REN-TYPE-EDIT (Editor) CE-DATE and TIME.

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		Patent Management. To study basic concept of Machine learning and Artificial Intelligence in Microbiology domain.			• Learn about Windows: Word Processing: Electronic Spread Sheet, Graph • Perform Data collection, Data representation, Manuscript preparation, Plagiarism, Research ethics, QA, QC, GLP, GMP, Patents & IPR. • Understand importance of Machine learning and Artificial Intelligence in Microbiology domain.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Microbial Biochemistry **Semester: I** **Paper: IV**

Class: Microbiology **Name of the Faculty: Dr. Mohammed Al Saiqali**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 28 16/10/24 to 29/11/24	To study and understand the pH. Buffer preparation and their uses in biological reaction. Bioenergetics and Redox Potentials To study lipids classification and carbohydrates	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand Determination of pH, Types of buffers and their uses in biological reaction, preparation of buffers • Learn about Bioenergetics- Concept of entropy, free-energy, free energy changes, high energy compounds. • Learn about Equilibrium constants, Redox potentials, Biological redox systems, biological oxidation, biological membranes, electron transport, oxidative phosphorylation and mechanism. • Learn classification of Lipids and carbohydrates
Unit II	4 hrs 31	To study about Nucleic acids, proteins and amino	Black board, white	Students are assessed by asking questions	On completion of this unit, students will be able to • Understand nucleic acids, their

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	3/12/24 to 21/01/25	acids. To study about enzymes and enzyme kinetics	board and projector	during the class and by conducting weekly tests	structure and properties. • Learn about protein and amino acids in detail. • Understand about enzymes, enzyme nomenclature, classification and methods of determination of enzyme activity. • Learn about enzyme kinetics.
Unit III	4 hrs 31 24/1/25 to 10/2/25	To study the mechanism of enzyme action, Coenzymes and enzyme engineering Regulation and application of enzymes	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn about Mechanism of enzyme action – Action of Hydrolases, Oxidases and reductases. • Learn Coenzyme catalysis (pyridoxal phosphate and TPP). • Understand Isoenzymes. Competitive and non-competitive inhibition. • Understand Methods for increased microbial enzymes production and activity. • Learn about Enzyme engineering. • Learn about Regulation of enzyme activity: allosteric enzymes and feedback mechanisms. Metabolic compartmentalization in relation to enzyme, enzymes and secondary metabolites.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Molecular Biology & Microbial Genetics **Semester: II** **Paper: I**

Class: Microbiology **Name of the Faculty: Dr. Mohammed Al SaiqAli**

Topic/Unit/Chapter	Teaching Hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit 1:	4 hrs 29 01-05-25 to 15-04-25	To study the structure of DNA and its replication in prokaryotes and eukaryotes. To study the prokaryotic and eukaryotic transcription and translation, structure of RNA's, wobble hypothesis, gee regulation and expression.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand Detailed structure of DNA, Z-DNA, A & B DNA, Denaturation and melting curves. Genome organization in prokaryotes and eukaryotes, Enzymes involved in DNA replication, Modes of DNA replication-semi-conservative, conservative, dispersive replication and Detailed mechanism of Semiconservative replication. • Learn Prokaryotic and eukaryotic transcription. • Learn Structure and processing of m-RNA, r-RNA t-RNA.
Unit II:	4 hrs	To study concept of	Black	Students are	On completion of this unit, students will be

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	30 22-04-25 to 20-6-25	genes, gene regulation, gene expression, mutation, bacterial recombination, bacterial conjugation and transduction.	board, white board and projector	assessed by asking questions during the class and by conducting weekly tests	able to • Learn concept of gene, Gene regulation and expression – Lac operon, arabinose and tryptophane operons. • Understand in detail about mutations. • Learn about DNA damage and repaid mechanisms. • Learn bacterial recombination, bacterial conjugation, bacterial transduction and transposable elements.
Unit III:	4 hrs 28 14-6-25 to 20-7-25	To study principles of genetic engineering, application of genetic engineering, general methods of gene cloning	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn principles and application of genetic engineering. • Understand general methods of gne cloning. • Learn PCR tecniques. • Understand rRNA/Genomic/cDNA library contraction and screening.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Immunology **Semester: II** **Paper: II**

Class: Microbiology **Name of the Faculty: Ms. Fehmida Begum**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 30 3-3-25 to 17-4-25	To study about the history of immunology. Antigens and antibodies. To study generation, structure of B and T cells, innate and adaptive immunity and role of inflammasome in innate immune response	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn History of immunology • Learn about Antigens –Nature, properties, types and factors affecting antigenicity. Haptens • Learn about Antibody -Structure, functions and classification. Isotypes, allotypes and idiotypes. • Learn Generation of T cell receptor diversity by genomic rearrangement Structure of B and T cell receptors. • Understand Innate and adaptive immunity and role of inflammasome in innate immune response.
Unit II	4 hrs 28 20-4-25 to 14-6-25	To study MHC, immune response during infections, immunological tolerance. To study about	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn about Major Histocompatibility Complex (MHC). • Learn Immune response during

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		antigen and antibody reactions, development of immunodiagnostic kits and complement pathways			bacterial (tuberculosis), parasitic (malaria) and viral (HIV) infections, Congenital and acquired immunodeficiencies. • Learn Immunological tolerance-central and peripheral. • Learn various antigen and antibody reactions, labeled antigen-antibody reactions. • Understand about development of immune diagnostics kits and different complement pathways.
Unit III	4 hrs 28 16-6-25 to 24-7-25	To study Hypersensitivity, autoimmunity, principles of immunization. To study modern vaccines, production of polyclonal antibodies, immune suppression and its action. To study Immuno diagnosis and immune therapy of cancer	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn about hypersensitivity and autoimmunity. • Understand types of conventional vaccines and principles of Immunization. • Understand Modern vaccines; peptide, DNA, recombinant / vector, and anti-idiotypic vaccines Schedules of common vaccination, Benefits and adverse consequences of vaccination. • Learn about production of polyclonal antibodies; Animals models for production of antibodies • Learn about Hybridoma techniques and monoclonal antibody production. • Learn about Immunosuppression and its mechanism of action and Tumor immunology. Immuno diagnosis and immune therapy of cancer

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Industrial Microbiology **Semester: II** **Paper: III**

Class: Microbiology **Name of the Faculty: Dr. Sreedhar Bhattar**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 31 4-3-25 to 16-4-25	To study about the importance of industrial microbiology, fermentation, inoculum media and preparation. To study fermentation media and types of fermentation process	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Students are able to learn the importance of industrial microbiology • Learn about industrial important microorganisms, inoculum media, inoculum preparation upstream strategies and raw materials, cost economics for fermentation industries. • Learn fermentation media and sterilization. • Learn types of fermentations processes.
Unit II	4 hrs 27 19-4-25 to 9-6-25	To study about bioreactors, fermentation productions and principles of wine making.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn in details about bioreactors and its functions. • Learn fermentative production of industrial alcohols and beer. • Learn principles of wine making.

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Unit III	4 hrs 29 11-6-25 to 21-7-25	To study microorganisms involved in industrial microbiology antibiotics fermentation. To study downstream process and immobilization methods used in industries.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand microorganisms involved in media preparation, fermentation and recovery process of antibiotics. • Learn downstream process, and immobilization methods used in industries.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Pharmaceutical Microbiology **Semester: II** **Paper: IV**

Class: Microbiology **Name of the Faculty: Dr. Majid Mohiuddin**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 30 6-3-25 to 17-4-25	To study pharmaceutical industries, pharmacopeias, microbiological issues, FDA' CPAs, pharmaceutical Good manufacturing practices in pharmaceutical industry.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand about various pharmacopeias. • Learn about microbiological issues for inspection in pharmaceutical facilities. • Learn about FDA's CAPA, OOPs, SOPs, ISO, WO and US Certification. • Learn about GAMP guidelines.
Unit II	4 hrs 28 21-4-25 to 17-6-25	To study chemotherapy, plants and arsenicals as therapeutics, contribution of Paul Ehrlich. Development of synthetic drugs. To study antibiotics, types of antibiotics and mode of action of	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand details about History of chemotherapy – plants and arsenicals as therapeutics, Paul Ehrlich and his contributions, selective toxicity and target sites of drug action in microbes. • Learn about Development of synthetic drugs – Sulphanamides, antitubercular compounds, nitrofurons, nalidixic acid,

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		antibiotics.			metronidazole group of drugs. • Learn about Antibiotics - The origin, development and definition of antibiotics as drugs, types of antibiotics and their classification.
Unit III	4 hrs 27 18-6-25 to 23-7-25	To study antimicrobial effectiveness testing, cosmetic products and preservatives, non-antibiotic antimicrobial compounds, drug sensitivity testing methods and their importance.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn about antimicrobial effectiveness testing, cosmetic products and preservatives. • Learn about bacterial endotoxin testing. • Learn microbiological assays like Assay for growth inhibiting substances – Assay for non-medicinal antimicrobials (Phenol coefficient). • Drug sensitivity testing methods and their importance. • Assay for antibiotics – Determination of MIC, the liquid tube assay, solid agar tube assay, agar plate assay (disc diffusion, agar well, and cylinders cup method), Macfarland standard.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Environmental and Agricultural Microbiology **Semester: III** **Paper: I**

Class: Microbiology **Name of the Faculty: Dr. Sreedhar Bhattar**

Topic/Unit/Chapter	Teaching Hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 30 23-9-24 to 25-10-24	To study about microorganisms in air, water and soil.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand about air microflora and their importance. • Understand water microorganisms and their important and treatment of waste water. • Understand soil properties, soil microorganisms and their importance.
Unit II	4 hrs 26 28-10-24 to 3-12-24	To study phyllosphere & rhizosphere, composting, soil humus formation, nitrogen cycle, microbial bioremediation of environmental pollutants	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand the role of microorganisms of phyllosphere & rhizosphere, decomposition, composting and waste management. • Understand soil humus formation & nitrogen cycle. • Learn about microbial bioremediation of environmental pollutants, hazardous

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					waste management and its treatment.
Unit III:	4 hrs 2-8 4-12-24 to 20-1-25	To study agricultural microbiology, biocontrol agents, microbial pesticides, nitrogen fixation & Biofertilizers.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn about in detail about agricultural microbiology, green revolution, biocontrol agents, Integrated Plant Pest Management and Microbial pesticides. • Learn Nitrogen fixation and importance of nitrogen fixation in environment. • Learn about biofertilizers, types of biofertilizers, methods of biofertilizers, vermiculture and vermicomposting.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Medical Bacteriology **Semester: III** **Paper: II**

Class: Microbiology **Name of the Faculty: Dr. Mohammed Al Saiqali**

Topic/Unit/Chapter	Teaching Hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 28 23-10-24 to 21-11-24	To study medical microbiology, classification of medically important microorganism, distribution and occurrence of normal flora of human body & diagnostic microbiology	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand principles of medical microbiology, classification of medically important microorganisms, distribution and occurrence. • Learn bacteria in blood and tissues, types of infection & diagnostic microbiology. • Learn surveillance and prevention of hospital acquired infections.
`Unit II	4 hrs 26 24-11-24 to 20-12-24	To study systemic bacteriology, bacterial air borne infections and sexually transmitted diseases caused by bacteria.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand systematic bacteriology of Learn bacterial air borne infection • Understand systematic bacteriology of sexually transmitted diseases caused by bacteria.
Unit III	4 hrs	To study systematic	Black	Students are	On completion of this unit, students will be able

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	28 22-12-24 to 22-1-25	bacteriology of water borne infections, wound infections and biomedical waste management	board, white board and projector	assessed by asking questions during the class and by conducting weekly tests	to • Understand systemic bacteriology of water borne infection. • Learn systematic bacteriology of wound infection. • Learn about biomedical waste management.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Cell and Molecular Biotechnology **Semester: IV** **Paper: III**

Class: Microbiology **Name of the Faculty: Ms. Fehmida Begum**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 30 24-10-24 to 20-11-24	To study Cell cyle, signal transduction, cAMP and GMP, steroid/peptide hormone regulation, protein folding and the roles of molecular chaperones.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to learn • Learn Cell cycle: Cell division regulation and cancer. Role of protein Kinases in cell cycle. • Learn about Programmed cell death. Geno toxicity assays. And Signal transduction • Understand the concept of second messenger, cAMP & cGMP. Steroid/peptide hormone regulation, tissue specific regulation. • Learn Protein folding and the roles of Molecular chaperones.
Unit II	4 hrs 27 22-11-24 to 20-12-24	To study analysis of protein-protein and protein DNA interactions, PCR, DNA fingerprinting	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly	On completion of this unit, students will be able to learn • Learn about the analysis of protein-protein and protein-DNA interactions,

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		and DNA markers, Gene knockout and emerging omics techniques.		tests	Polymerase chain reaction, DNA/Protein sequencing, construction and screening. • Learn gene knock out and emerging omics techniques.
Unit III	4 hrs 30 21-12-24 to 22-1-25	To study bioinformatics and Molecular Databases, Primary Databanks Secondary Databases, Genome Annotation a nd Gene Prediction; Primer Designing; Ph ylogenetics analysis and Tree construction & ADME	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to learn and perform • Understand the concept of bioinformatics and Molecular Databases, Primary Databanks & Secondary Databases. • Learn about alignment Genome Annotation and Gene Predictio n; Primer Designing; Phylogenetics analysis and Tree construction; • Learn Protein Sequence Analysis; Approaches for Protein Structure Prediction-Homology modeling of protein. • Understand Structure Based Drug Design and Ligand Based drug Design; Docking studies; ADMET and Toxicity calculations.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Entrepreneurship in Microbial Sciences **Semester: III** **Paper: IV**

Class: Microbiology **Name of the Faculty: Dr. Majid Mohiuddin**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 29 23-09-24 to 21-10-24	To study about entrepreneurial society & entrepreneur development. To study the concept of entrepreneurship and entrepreneurship management.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand about entrepreneurial society, entrepreneur development, Government contributions to entrepreneurs, MSMEs, enterprise & startups process of entrepreneurship. • Learn about Financial planning, budget measuring and reporting. • Learn about entrepreneur management and case studies. • Understand Indian and Global scenario and market of biotech and pharma industries.
Unit II	4 hrs 28 22-10-24 to 24-11-24	To study microbial entrepreneurship, biobased technology, practical aspects to setup of labs for soil and water analysis. To study about	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to know about • Learn about microbial entrepreneurship and biobased technology. • Learn practical aspects to setup of labs for soil and water analysis.

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		documentation, accreditation and permission protocols to setup clinical diagnostic centre.			• Understand the documentation, accreditation and permission protocols to set up clinical diagnostic centre. • Learn about documentation and report analysis of hematology, serology and pathology.
Unit III	4 hrs 30 26-11-24 to 15-01-25	To study IPR and regulatory issues in relation to microorganisms, documentation and deposition of potential microbial strains for patent application. To study funding procedures for startups and biosafety principles.	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn the concept of IPR and regulatory issues in relation to microorganisms, documentation and deposition of potential microbes for patent application. • Understand funding procedures for startups of biotechnology & microbiology projects, alternative models of technology transfer and licensing. • Learning about biosafety principles, bioethics regulation and bioethical committee.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Food Microbial Technology **Semester: IV** **Paper: I**

Class: Microbiology **Name of the Faculty: Dr. Mohammed Al Saiqali**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 27 15-3-25 to 17-3-25	To study food associated molds, yeasts, yeastlike fungi and bacteria, principles of food preservations, factors influencing microbial growth in food, food preservatives, additives, canning and processing	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know about food associated fungi and bacteria. • Learn about Fermented food products. • Understand Principles of food preservations, bacteriological examination of fresh and canned foods, detection of pathogens in food. • Understand factors influencing microbial growth in food, chemical food preservatives and additives.
Unit II	4 hrs 26 19-3-25 to 25-3-25	To study about diary microbiology, fermented foods, prebiotics, probiotics and postbiotics nutraceuticals	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Understand diary microbiology and microbial products of milk. • Understand benefits of traditional and non-traditional fermented foods. • Learn about microorganisms as food-

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					single cell proteins, sea weed, mushrooms, prebiotics and their screening methods.
Unit III	4 hrs 30 21-3-25 To 25-4-25	To study spoilage of raw and processed or canned foods, detection of food spoilage, significance of food borne diseases and their detection. To study about biosensors to detect food borne pathogens, principles of quality control and microbiological criteria. To study 3D printing technologies in foods.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn about spoilage of raw and processed/canned foods, detection of food spoilage. • Learn detection of food-borne microorganisms and biosensors to detect food borne pathogens. • Learn about principles of quality control and microbiological criteria, indicators of product quality and microbiological safety of foods, hazard analysis, HACCP, GMP. • Understand the concept of 3D printing technologies in foods, its nutritional value, microbial contamination and regulatory frameworks.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Medical Virology and Parasitology **Semester: IV** **Paper: II**

Class: Microbiology **Name of the Faculty: Ms. Fehmida Begum**

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 29 17-2-25 to 18-3-25	To study about the Diagnostic virology – Cultivation of pathogenic viruses in lab animals and tissue culture Identification of pathogenic viruses and establishment of viral etiology	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know Diagnostic Virology, cultivation and identification of pathogenic viruses and establishment of viral etiology • Learn structure, cultivation, pathogenicity, lab diagnostics, prevention and control of air borne viral infections.
Unit II	4 hrs 28 20-3-25 to 21-4-25	To study about Structure, cultivation, pathogenicity, lab diagnostics, prevention and control of viruses transmitted by water, zoonosis and sexually transmitted viral diseases.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn Structure, cultivation, pathogenicity, lab diagnostics, prevention and control of viruses transmitted by water and zoonosis • Understand Structure, cultivation, pathogenicity, lab diagnostics, prevention and control of sexually transmitted viral diseases.

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Unit III	4 hrs 30 23-4-25 to 13-6-25	To study the Structure, cultivation, pathogenicity, lab diagnostics, prevention and control of Parasite protozoans and medical mycology.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn the structure, cultivation, pathogenicity, lab diagnostics, prevention and control of Malaria, Amoebiasis, Trichomoniasis and Helminthic infections (Round worms, Hook worms). • Learn about medical mycology, dermatomycosis, types, pathogenesis and diagnostics. • Understand fungal infections associated with COVID10, precaution and management.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Subject: Microbial Ecology: Host Microbe Interactions **Semester: IV** **Paper: III**

Class: Microbiology

Name of the Faculty: Dr. Sreedhar Bhattar
Dr. Majid Mohiuddin

Topic/Unit/Chapter	Teaching hours	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I	4 hrs 29 17-2-25 to 19-3-25	To study Microbial ecology, Microbial diversity, ecological succession and comparative analysis of microbial communities, climax community and key stone species.	Black board, white board and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn the microbial ecology, microbial signaling and quorum sensing. • Learn nature of microbial communities, microbial growth curve representing r and k reproductive strategies. • Understand Microbial diversity and ecological succession and comparative analysis of microbial communities.
Unit II	4 hrs 28 21-3-25 to 22-4-25	To study Host (plant) – microbe interactions, epiphytes and endophytes. To study role of soil microbiome vs plant microbiomes for plant health, direct and indirect interaction	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Know about Host (Plant) – Microbe interactions, role of soil microbiome vs plant microbiomes for plant health. • Learn about microbial formulations. • Learn about plant-pathogen interactions and basic concept of plant immunity and plant defense mechanisms.

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		and mechanisms of microorganisms to promote soil and plant health. To study plant-pathogen interactions and plant defense mechanisms			
Unit III	4 hrs 29 24-4-25 to 12-6-25	To study Host (Animal) microbe interactions, microbiota transmission in humans, role of human microbiome in infectious inflammatory non communicable diseases. To study about microbiome modulation therapies, microbiome engineering and restorations.	Blackboard and projector	Students are assessed by asking questions during the class and by conducting weekly tests	On completion of this unit, students will be able to • Learn about Host (Animal) microbe interactions. • Learn about human microbiome and microbiota transmission in humans. • Know the role of human microbiome in infectious inflammatory non communicable diseases. • Understand Microbiome modulation therapies. • Learn Microbiome engineering and restoration. • Understand emerging studies on microbiome and one health concept.

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DEPARTMENT OF MICROBIOLOGY

M.Sc. Microbiology, Academic year- 2024-2025

Semester: IV

Class: Microbiology

PROJECT WORK

1. Number of students who will be offered project work will vary batch to batch depending upon the infrastructural facilities and may vary each year (Not exceeding 5 students per group).

2. Project work will involve experimental work and the student will have to complete this in stipulated time.

3. The final evaluation of the project work will be through a Panel involving internal and external examiners.

4. Guidelines provided for executing and evaluation of project work will be final.

5. Students will be asked their choice for Project work at the beginning of IV semester and all formalities of topic and mentor selection will be completed.

Project work will be offered in lieu of expertise and infrastructural facilities of the department and will be evaluated for 6 credits.

6. The distribution of marks for project work will be:

Project work in lieu of one theory paper: 100 Marks (80 marks for dissertation + 20 marks for internal assessment for research skills) and 50 marks for research work presentation.

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DEPARTMENT OF COMMERCE

Teaching Lesson Plan

2024-25

Subject: RESEARCH METHODOLOGY & QUANTITATIVE TECHNIQUES **Semester: III**

Class: M.Com Second Year **Name of the Faculty: Dr. Yasmeen Banu**

Topic/Unit/Chapter	No. of Classes (From – Sept 2024 to Feb 2025	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-I: INTRODUCTION: Research: Meaning, Purpose, Characteristics and Types - Process of Research: Formulation of objectives - Research plan and its components - Methods of Research: Survey, Observation, Case study, Experimental, Empirical and Comparative Methods - Difficulties in Business Research (Theory only) Collection, Presentation & Analysis of data: Sources of Data: Primary and Secondary Sources - Methods of collecting Primary Data - Measurement and Scaling -Designing Questionnaires/Schedules. Census vs. Sampling - Methods of Sampling Random and Non-Random Sampling methods - Techniques. (Theory only)	23/9/24 to 19/10/24 (17 days)	*Understand the **meaning, purpose, characteristics, and types** of research. *Explain the **research process**, including the formulation of objectives and components of a research plan. *Distinguish between various **research methods** such as survey, observation, case study, experimental, empirical, and comparative. *Identify the **challenges in conducting business research.**	**PowerPoint Presentations** For explaining theoretical concepts and visualizing the research processes **Whiteboard/Markers** For sketching research process diagrams and brainstorming **Google Forms/MS Word** For creating and demonstrating data collection tools **YouTube Videos** (selective) For real-world examples and tutorials on sampling/data collection **Handouts/Worksheets** For in-class activities on matching research types with examples	**Assignment Title:** *"Designing a Mini Research Proposal with Sampling and Data Collection Plan"* **Instructions:** Prepare a short proposal (4–6 pages or a PowerPoint presentation) based on any one of the **Submission Format:** Typed Word/PDF document or PowerPoint slides **Due Date:** One week from the assignment date	*Define and explain research and its role in academic and business settings. *Outline the process of conducting research from identifying a problem to planning and data collection. *Compare different research methods and determine their suitability for different research problems. *Design research tools like questionnaires and identify appropriate data collection techniques. *Differentiate between census and sampling and apply suitable **sampling methods** (random and non-random).

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		*Learn about **data collection**, measurement, scaling, questionnaire design, and **sampling techniques**			
UNIT-II: INTERPRETATION AND REPORT WRITING: Interpretation: Introduction - Essentials for Interpretation, Precautions in interpretation - Conclusions and generalization - Methods of generalization. Statistical fallacies (bias, inconsistency in definitions, inappropriate comparisons, faulty generalizations, drawing wrong inferences, misuse of statistical tools, failure to comprehend the data. Report Writing: Meaning and types of reports - Stages in preparation of Report - Characteristics of a good report - Structure of the report'-Documentation: Footnotes and Bibliography - Checklist for the report.	21/10/24 to 8/11/24 (16 days)	*Understand the meaning and importance of data interpretation in research. *Learn the principles and techniques for interpreting statistical and qualitative data. *Understand the structure, format, and purpose of a research report. *Acquire skills for writing effective, concise, and comprehensive research reports. *Recognize common errors and best practices in interpretation and reporting.	**Sample Review** Analyze excerpts from real research reports **Use of Tools** Demonstration of MS Word formatting and referencing (e.g., APA, MLA) **Interactive Discussion** Common challenges and best practices in writing	**Assignment Title:** *"Interpretation of Results and Research Report Writing"*	*Interpret research findings accurately and logically in relation to research objectives. *Distinguish between findings, inferences, and conclusions. *Organize and present research data effectively in written form. *Write structured reports including sections such as introduction, methodology, findings, discussion, and conclusion. *Use visuals and references appropriately in report writing (tables, charts, citations). *Review and edit reports to ensure clarity, coherence, and academic integrity.

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UNIT-III: STATISTICAL ESTIMATION, HYPOTHESIS TESTING AND SAMPLING OF VARIABLES: Statistical Estimation: Concepts of Population, Sample and Sampling Distribution - Parameters and Statistics - Central limit theorem - Concept of Standard Error - Confidential Limits - Estimation of Population Parameters - Properties of a Good Estimator - Point and Interval Estimation - - Hypothesis Testing: Formulation of Hypotheses: Types of Hypotheses - Methods of testing Hypotheses - Type I and Type II errors - One tail and two tail tests (Theory only). Sampling of Attributes: Estimation and testing of Number and Proportions of Success - Difference between two proportions (including problems). Sampling of Variables: Large Samples: Difference between large and small samples - Estimating population mean - Testing: Significance of Mean - Significance of the difference between means of two samples - Significance of the difference between the standard deviations of two samples. (Including problems) Small Samples: „t" test - Fixing fiducial limits to population mean – Testing: Significance of the mean - Significance of the difference between two independent means – Significance of the difference between two dependent means (including problems).	12/11/2024 to 14/12/2024 (23 days)	***Understand Statistical Estimation:** Define and explain point and interval estimation. Interpret confidence intervals and margin of error. ***Grasp the Fundamentals of Hypothesis Testing:** Formulate null and alternative hypotheses. Identify appropriate tests (Z-test, t-test, Chi-square test). Understand Type I and Type II errors. ***Learn Sampling Techniques:** Understand the importance and methods of sampling. Distinguish between random and non-random sampling. Apply sampling	Lecture with problems and solution	**Class Assignment** Detail: Calculate confidence intervals, apply t-tests/z-tests **Purpose:** To assess application skills **Group Activity** Real-life problem-solving: Formulate and test a hypothesis based on data **Purpose:** To evaluate teamwork and analytical skills	• **Explain** the concepts of point and interval estimation and interpret confidence intervals. To assess application skil • **Design** and **execute** hypothesis tests for means, proportions, and variances using sample data. • **Differentiate** between sampling methods and select the appropriate one for research problems. • **Analyze** sample data using appropriate statistical tools and software (e.g., Excel/SPSS). • **Interpret** test results and draw conclusions about populations based on sample statistics.

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DEPARTMENT OF COMMERCE

Teaching Lesson Plan

2024-25

Subject: ADVANCE MANAGERIAL ACCOUNTING **Semester: II**

Class: M.Com First Year **Name of the Faculty: Dr. Yasmeen Banu**

Topic/Unit/Chapter	No. of Classes (From –	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-I: ANALYSIS OF FINANCIAL STATEMENTS: Financial Statements – Meaning – Objectives – Types – Uses - Limitations - Analysis of financial statements - Meaning - Techniques (Theory only) - Ratio Analysis: Meaning – Classification of Ratios: Current Ratios, Solvency Ratios, Activity Ratios and Profitability Ratios – DuPont Analysis (Including problems) - Cash Flow Analysis – Meaning - Preparation of Cash Flow Statement as per Ind-AS-7 (Including problems).		• Understand the **meaning, purpose, and types** of financial statements. • Learn the **uses and limitations** of financial statements for stakeholders. • Understand the **meaning and importance** of financial statement analysis. • Explore **techniques of analysis** such as **ratio analysis, DuPont analysis**, and **cash flow analysis**. • Understand the **preparation of cash flow statements** as per **Ind-AS 7**. • Solve basic problems related to ratio analysis, CFS & DuPont analysis	**PowerPoint Presentations** Explain theoretical concepts with examples and diagrams **Sample Annual Reports** Real financial statement for analysis practice **Excel Sheets** For calculating anc interpreting financial ratios & cash flow **Handouts** Ratio formulas, DuPont structure, Ind-AS 7 summary for student reference **Case Studies** Real or hypothetical company data for financial analysis discussion	**Assignment Title:** *"Application of Financial Statement Analysis in Real-World Business"*	• **Define and explain** financial statements and their role in business decision-making. • **Identify and classify financial ratios** (liquidity, solvency, activity, and profitability). • **Perform and interpret** ratio and DuPont analysis for financial performance evaluation. • **Prepare and analyze** a cash flow statement in accordance with Ind-AS 7. • **Evaluate financial performance** of a company using a combination of financial tools. • Apply theoretical knowledge to **solve problems** on ratios, DuPont analysis, and cash flow.

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UNIT-II: RESPONSIBLTIY ACCOUNTING AND TRANSFER PRICING: Responsibility Accounting – Concept – Steps – Responsibility Centre – Types of Responsibility Centres: Cost Centre, Revenue Centre, Profit Centre and Investment Centre – Preparation of Responsibility accounting reports (Including problems). Transfer Pricing - Concept – Methods: Market-based pricing – Cost-based pricing – Negotiated pricing - Dual pricing (including problems).		• Understand the **concept and purpose** of responsibility accounting. • Identify and differentiate between various **types of responsibility centres.** • Learn the **steps involved** in implementing responsibility accounting. • Prepare and interpret **responsibility accounting reports.** • Understand the concept of **transfer pricing** and its importance in decentralized organizations. • Explore and compare different **transfer pricing methods** such as market-based, cost-	**PowerPoint Presentations** To explain concepts, types of responsibility centres, and pricing methods **Whiteboard/Smartboard** To work out sample problems and draw performance reports **Company Case Studies** To relate theory to real -world applications in MNCs or conglomerates **Charts and Flow Diagrams** To visualize the flow of responsibility and cost assignment	**Assignment Title:** *"Responsibility Centres and Transfer Pricing in Practice"* To visualize the flow of responsibility ar Summary of transfer pricing methods wi limitations	*Define responsibility accounting and explain its significance in performance evaluation. *Distinguish between cost, revenue, profit, and investment centres with suitable examples. *Prepare responsibility accounting reports and analyze performance using actual vs. budgeted results. *Explain the concept of transfer pricing and the need for it in intra-division transactions. *Apply and compare various transfer pricing methods in business scenarios. *Solve basic numerical problems related to responsibility accounting and transfer pricing decisions.

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		based, negotiated, and dual pricing.			
UNIT-III: INFLATION ACCOUNTING AND INCOME MEASUREMENT: Inflation Accounting - Concept – Limitations of historical based-cost financial statements – Methods of Inflation Accounting: Current Purchasing Power Method – Current Cost Accounting Method (Including problems) Income Concepts for financial reporting – Measurement and Reporting of Revenues, Expenses, Gains and Losses (Theory only) – Analysis of Changes in Gross Profit (Including problems)		• Understand the **concept and scope of accounting** in financial reporting. • Recognize the **limitations of historical cost-based financial statements,** especially during inflation. • Learn and differentiate between **Current Purchasing Power (CPP)** and **Current Cost Accounting (CCA)** methods. • Apply inflation accounting techniques to solve **simple numerical problems.** • Understand key **income concepts** in financial reporting.	**PowerPoint Presentations** To introduce theoretical concepts and walk through accounting methods **Whiteboard/Smartboard** To solve inflation accounting problems and illustrate income measurement **Sample Financial Statements** To practice restating data using CPP and CCA **Charts & Graphs** To visualize the impact of inflation on financial performance	**Assignment Title:** *"Accounting for Inflation and Analysis of Financial Performance"*	• **Explain the limitations** of historical cost accounting in times of inflation. • **Apply the CPP and CCA methods** to adjust financial statements for inflation. • **Solve basic problems** involving inflation-adjusted accounting figures. • **Define and interpret** key terms such as income, expenses, gains, and losses. • **Understand different income concepts** for financial reporting and how they impact decision-making. • **Analyze changes in gross profit** using comparative income statements and interpret the causes of variation.

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UNIT-IV: FINANCIAL MEASURES OF PERFORMANCE: Introduction – Return on Investment (ROI) – Concept – Uses and Limitations – Economic Value Added (EVA) – Concept – Significance of EVA – Measurement of EVA (Simple problems only) Balanced Score Card (BSC) – Concept – Objectives – Perspectives of BSC - Multiple Scorecard Measures to a Single Strategy (Theory only).		• Understand the **importance of financial performance measures** in strategic management and decision-making. • Explain the **concept, calculation, uses, and limitations of Return on Investment (ROI).** • Learn the **concept and significance of Economic Value Added (EVA)** and how it is used to measure value creation. • Perform **basic calculations for EVA** using given data. • Understand the **Balanced Scorecard (BSC)** framework and its role in linking financial and non-financial performance. • Identify the **four perspectives of BSC** and how they align with strategic goals.	**PowerPoint Slides** To explain key concepts like ROI, EVA, and BSC visually **Whiteboard/Smartboard** For solving simple problems related to ROI and EVA in class **Excel Sheets** For performing EVA calculations and illustrating scorecards **Case Studies** To demonstrate real-world application of BSC and financial measures **Balanced Scorecard Templates** For classroom exercises and assignments **Infographics/Charts** To show linkages between BSC perspectives and strategic goals	**Assignment Title:** *"Measuring and Linking Financial Performance with Strategy"*	• **Define and explain ROI** and evaluate its strengths and weaknesses as a performance metric. • **Compute and interpret EVA** using simple financial data to assess shareholder value. • Understand and apply the **components and objectives of the Balanced Scorecard.** • Analyze how **multiple BSC measures** relate to an organization's strategy. • Integrate **financial and non-financial indicators** to develop a comprehensive view of performance. • Compare and critique traditional financial measures with modern strategic tools like EVA and BSC.

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UNIT V: MANAGERIAL DECISION MAKING: Cost concepts for decision making – Marginal Costing and Decision Making - Pricing Decisions - Product decisions: Profit Planning - Level of Activity - Key/Limiting Factor - Dropping a Product Line - Introducing a New Product LineProduct/Sales Mix Decisions - Make or Buy decisions (Including Problems)		• Understand **cost concepts** relevant for managerial decision-making. • Apply **marginal costing techniques** to short-term business decisions. • Analyze various **types of managerial decisions** such as pricing, product, and production mix decisions. • Evaluate decision scenarios involving **key/limiting factors**, **profit planning**, and **activity levels**. • Solve problems related to **dropping/introducing product lines** and **make-or-buy decisions**. • Develop a sound understanding of how cost and contribution impact managerial choices.	**PowerPoint Presentations** To explain marginal costing principles and cost concepts **Whiteboard/Smart board** For solving in-class numerical problems and diagrammatic analysis **Excel Worksheets** For practical applications in profit planning, break-even, and product mix decisions **Real-life Business Scenarios/Case Studies** For application-based learning and critical thinking	**Assignment Title:** *"Marginal Costing Applications in Managerial Decisions"*	• **Define and distinguish** between relevant and irrelevant costs for decision making. • **Use marginal costing principles** to assess the impact of managerial decisions. • **Identify and analyze** key decision-making scenarios: Pricing under different conditions Product mix optimization Introduction or discontinuation of product lines Make-or-buy decisions • **Solve numerical problems** related to contribution analysis, break-even points, and limiting factors. • Recommend **strategic decisions** based on quantitative analysis and cost behavior. • Understand the importance of **profit planning** in maximizing business performance.

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DEPARTMENT OF MATHEMATICS

LESSON PLAN FOR 2024-2025

Course Name:Abstract Algebra **Faculty : Mohammed SuhailMajeed**

Program: M.Sc. **I YEAR SEM -I** [APPLIED MATHEMATICS] PAPER-I

Units	Topics	No.of classes	Objectives	Teaching Aid	Assessment	Learning Outcomes
1	Automorphisms - Conjugacy and G - sets - Normal series - Solvable groups - Nilpotent groups.	21/10/2024 TO 30/11/2024	The student will be able to define the concepts of group, ring, field, and will be able to readily give examples of each of these kinds of algebraic structures	Problem solving method Lecture method Seminar	MCQ'S, Assignments	Undestanding the Automorphism
2	Structure theorems of groups: Direct products - Finitely generated abelian groups - Invariants of a finite abelian group - Sylow theorems - Groups of orders p 2 ,pq.	01/12/2024 TO 30/12/2024	The student will be able to define the concepts of co-set and normal subgroup and to prove elementary propositions involving these concepts.	Problem solving method Lecture method Seminar	MCQ'S, Assignments	Understanding cyclic group
3	Ideals and homomorphisms - Sum and direct sum of ideals, Maximal and Prime ideals - Nilpotent and nil ideals - Zorn's lemma.	02/01/2025 TO 30/01/2025	The student will be able to define and work with the concepts of homomorphism and isomorphism	Problem solving method Seminar	MCQ'S, Assignments	Understanding Maximal and prime ideals .
4	Unique factorization domains - Principal ideal domains - Euclidean domains - Polynomial rings over UFD - Rings of Fractions.	01/02/2025 TO 08/02/2025	The student will be able to apply the basic concepts of field theory, including field extensions and finite fields	Problem solving method Seminar	MCQ'S, Assignments	Understanding unique Factorization

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DEPARTMENT OF MATHEMATICS

LESSON PLAN FOR 2024-2025

Course Name: MATHEMATICAL ANALYSIS

Faculty : Asma Mateen Hussain

Program: M.SC [APPLIED MATHEMATICS]I Year , SEMESTER I -, PAPER- II

Course Objective: Better understanding of different concepts and its application

UNITS	MONTH	TOPIC	PROCEDURE	LEARNING OUTCOME	ASSESSMENT
1	2/10/24 to 30/10-/24	Algebra of set ,borse sets , outer measurable set and lebesgue measure,a non-measurable set	Problem solving method Lecture method Seminar	Understanding different aspects of Fourier Transforms and its Application.	MCQ'S, Assignments
2	2/11/24 to 30/11/24	The riemann integral,the lebesgue integral of a bounded function over a set of finite measure , the integral of a nonnegative function, the general lebesgue integral	Problem solving method Lecture method Seminar	Understanding the Laplace Transforms and its Applications.	MCQ'S, Assignments
3	3/12/24 to 30/12/24	Convergence in measure , differentiation of a monotone functions ,functions of bounded variation	Problem solving method Seminar	Understanding and application of Inverse Laplace Transform	MCQ'S, Assignments
4	02/1/25 to 30/1/25	Differentiation of an integral , absolute continuity , the minkowski and holder s inequalities	Problem solving method Seminar	Understanding and application of Mellin Transform	MCQ'S, Assignments

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DEPARTMENT OF MATHEMATICS

LESSON PLAN FOR 2024-2025

Course Name: Ordinary differential equations. **Faculty : Shaik Abdul Hafiz**

Program: M.Sc. [APPLIED MATHEMATICS], SEMESTER -1, PAPER-III.

Course Objective: Better understanding of the ordinary and partial differential equations and theorems based on it.

MONTH	TOPIC	PROCEDURE	LEARNING OUTCOME	ASSESSMENT
18/10/2024 TO 31/10/2024	Existence and uniqueness of solution of $dy/dx = f(x,y)$ Method of successive approximation Picard's theorem	Problem solving method Lecture method Seminar	Understanding ODE and different methods and parameters to solve it.	MCQ'S, Assignments
1/11/2024 TO 20/11/2024	Non-linear PDE of order one Charpit's method Cauchy's method of solving non-linear PDE Linear PDE with constant coefficient	Problem solving method Lecture method Seminar	Understanding different methods to solve PDE and BVP	MCQ'S, Assignments
21/11/2024 TO 02/12/2024	Partial differential equations of order two with variable coefficient-canonical form Classification of second order partial differential equation Separation of variables method for solving one dimensional Heat equation Wave equation and Laplace equation	Problem solving method Seminar	Understanding of 2nd order PDE and different types of PDE	MCQ'S, Assignments

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3/12/2024 TO 17/12/2024	Frobenius method Legendre's polynomial –Legendre's equation and its solution Legendre's polynomial and its solution Legendre Polynomial and its properties Generating function , Recurrence relations Laplace definite integrals for $P_n(x)$ Rodrigue's formula	Problem solving method Seminar	Understanding and solving different series solution and different formula	MCQ'S, Assignments
18/12/2024 TO 31/01/2025	Bessel's function of the first kind and its propertie Generating function Orthogonality properties Hermite polynomials Hermite's equation and its solution Hermite's polynomials and its properties Orthogonality properties	Problem solving method Seminar	Understanding different functions, their recurrence relations and other properties.	MCQ'S Assignments

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DEPARTMENT OF MATHEMATICS

LESSON PLAN FOR 2024-2025

Course Name: Numerical Analysis.

Program: M.Sc.[APPLIED MATHEMATICS] –I Year , SEMESTER -**1**, PAPER-IV.

Faculty Name :- Shaik Abdul Hafiz

Course Objective: Better understanding of numerical analysis and theorem based on it.

MONTH	TOPIC	PROCEDURE	LEARNING OUTCOME	ASSESSMENT
16/10/2024 to 30/10/2024)	Bisection method Muller's method. Regular falsi method	Problem solving method Lecture method Seminar	To Obtain numerical solution of algebra and transcendental equations.	MCQ's, Assignments
1/11/2024 to 20/11/2024)	N-R method. Rate of convergence Jacobi's method	Problem solving method Lecture method. Seminar	To Obtain numerical solution of algebra and transcendental equations To Find numerical solution of system of linear equation	MCQ's, Assignments
21/11/2024 to 02/12/2024)	Gauss elimination method Partition method,Gauss Seidal iteration method	Problem solving method Seminar	To Find numerical solution of system of linear equation	MCQ's, Assignments
03/12/2024 to 17/12/2024)	Lagrange and newton interpolation	Problem solving method Seminar	To Learn about various interpolating and extrapolating methods.	MCQ's, Assignments
(18/12/2024 to 31/12/2024)	Finite difference operation Hermite interpolations	Problem solving method Seminar	To Learn about various interpolating and extrapolating methods	MCQ's Assignments
02/01/2025 to 30/1/2025)	Composition integration methods. Taylor series method R-K method.Gauss Legender iteration method	Problem solving method Seminar	To Solve initial and boundary value problem in differential eq's using numerical methods	MCQ's Assignments

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DEPARTMENT OF MATHEMATICS
LESSON PLAN FOR 2024-2025

Course Name: Galois Theory

Program: M.Sc.[APPLIED MATHEMATICS] –**I Year** , SEMESTER -2, PAPER-I. Faculty Name :- Shaik Abdul Hafiz

Course Objective: Better understanding of Galois Theory and theorem based on it.

MONTH	TOPIC	PROCEDURE	LEARNING OUTCOME	ASSESSMENT
3/3/2025 to 24/3/2025	Algebraic extensions of fields , irreducible polynomials and Eisentein criterion – Adjunction of roots	Problem solving method Lecture method	Understanding different aspects of galois theory	MCQ'S. Assignments
26/3/2025 to 30/4/2025	Normal and separable extensions , splitting fields – normal extensions – Multiple roots - Finite fields,Saparable Extentions.	Problem solving method Lecture method Seminar	Understanding different types of galois functions	MCQ'S. Assignments
2/6/2025 to 30/6/2025	Galois Theory-Automarphism groups and fixed fields-Fundamental Theoram of Galois Theory,Fundamental Theoram of Algebra	Problem solving method Seminar	Understanding & application of different theorems	MCQ'S. Assignments
02/7/2025 to 8/8/2025	Aplications of Galois Theory to Classical problams;Roots of Unity and Cyclotomic polynomials-Cyclic Extentions-Polynomials solvable by Radicals-Symmetric Functions Rular and Compass constructions	Problem solving method Seminar	Understanding& application of solved problems.	MCQ'S Assignments

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ARTMENT OF MATHEMATICS
LESSON PLAN FOR 2024-2025

Course Name: Partial differential equations. **Faculty : Mohammed Suhail Majeed**

Program: M.Sc. I YEAR SEM -II [APPLIED MATHEMATICS] PAPER-II Hrs : 6hrs /week

Units	Topics	No.of classes	Objectives	Teaching Aid	Assessment	Learning Outcomes
1	First order Nonlinear Equations, Cauchy's method of Characteristics, compatible systems of first order equations, Charpit's method, Special types of first order equations.	**03/03/2025 TO 27/03/2025**	Introduce students to partial differential equations	Problem solving method Lecture method Seminar	MCQ'S, Assignments	Students will be able to understand PDE
2	Higher order Linear Partial Differential Equations with constant coefficients, Homogeneous Partial Differential Equations with constant coefficients, Classification of second order Partial Differential Equations, Canonical forms, Canonical form for hyperbolic, parabolic and elliptic equations.	**02/04/2025 TO 30/04/2025**	Introduce students to how to solve liner partial differential equation with different method	Problem solving method Lecture method Seminar	MCQ'S, Assignments	Students will be able to solve linear PDE using different methods

3	Fourier Transforms : Fourier Integral Representations, Fourier Transforms Pairs, Fourier Transform of Elementary Functions, Properties of Fourier Transform, Convolution theorem, Parseval's Relation,Transform of Dirac Delta Function, Finite Fourier Transforms.	**02/06/2025 TO 30/06/2025**	Technique of separation of variables to solve PDEs & analyze the behavior of solution in term of Eigen function expansions.	Problem solving method Seminar	MCQ'S, Assignments	Students will be able to determine solutions of PDE's using boundary and initial conditions
4	Solution of diffusion, wave and Laplace equations by using Fourier transforms and Separation of Variables Methods, D'Alembert's solution of wave equation, Dirichlet problem and Neumann problem.	**01/07/2025 TO 31/07/2025**	TO derive heat and wave equation in 2D and 3D	Problem solving method Seminar	MCQ'S, Assignments	Students will be able to derive heat and wave equations in 2D and 3D.

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DEPARTMENT OF MATHEMATICS
LESSON PLAN FOR 2024-2025

Course Name: Complex Analysis.
Program: M.Sc.[APPLIED MATHEMATICS] -I Year , SEMESTER -2, PAPER-III. Faculty Name :- Shaik Abdul Hafiz
Course Objective: Better understanding of Complex analysis and theorem based on it.

MONTH	TOPIC	PROCEDURE	LEARNING OUTCOME	ASSESSMENT
03/03/2025 to 27/03/2025	Regions in the complex Plane –Functions of a complex variable-Mappings –Mappings by the Exponential Functions –Limits –Limits involving the Points at infinity-Continuity –Derivatives –Cauchy –Riemann Equations –Sufficient Conditions for Differentiability – Analytic Functions –Harmonic Functions –Uniquely Determined Analytic functions – Reflection Principle – The Exponential Function –The Logarithmic function – Some Identities Involving Logarithms –Complex Exponents –Trigonometric Functions –Hyperbolic Functions	Problem solving method Lecture method Seminar	Understanding different aspects of complex region and different types of functions	MCQ'S, Assignments

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2/04/2025 to 30/04/2025	Derivatives of Functions w(t)-Definite Integrals of Functions w(t)-Contours-Contour Integrals-Some examples-Examples with Branch cuts-Upper Bound for Moduli of Contour Integrals –Anti derivatives-Cauchy – Gourshat Theorem-Simply connected Domains – Multiply Connected Domains-Cauchy Integral formula-An extension of the Cauchy Integral Formula-Lioville's Theorem and the Fundamental Theorem of Algebra-Maximum Modulus Principle	Problem solving method Lecture method Seminar	Understanding the different types of Integrals of the complex numbers	MCQ'S, Assignments
02/06/2025 to 28/06/2025	Convergence of Sequences-Convergence of Series – Taylor Series –LaurentSeries-Absolute and Uniform Convergence of Power series –Continuity of Sums of Power series –Integration and Differenciation of Power series-Uniqueness of Series Representations-Isolated Singular Points Residues –Cauchy's Residue Theorem – Residue at infinity –The Three Types of Isolated Singular Points –Residues at Poles –Examples-Zeros of Analytic Functions –Zeros and Poles –Behaviour	Problem solving method Seminar	Understanding and application of different theorems involving series	MCQ'S, Assignments
01/07/2025 to 31/07/2025	Evaluation of Improper Integrals –Improper Integrals from Fourier Analysis –Jordan's Lemma –Indented Paths –Definite Integral's Involving Sines and cosines – Argument Principle-Rouche's Theorem-Linear Transformation ,The Transformation w=1/z. Mappings by 1/z – Linear Fractional Transformation – An Implicit Form –Mappings of the Upper Half Plane	Problem solving method Seminar	Understanding and application of theorem o solve problems.	MCQ'S Assignments

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LESSON PLAN (2024-25)
DEPT OF MATHEMATICS
M.SC (FIRST YEAR)
SEMISTER – II
SUB: FLUID MECHANICS HRS : 6 hrs/week
NAME : ASMA MATEEN HUSSAIN

UNITS	TOPICS	No.of classes	OBJECTIVE	ASSESSMENT	LEARNING OUTCOMES
1	→Real fluids and ideal fluids →velocity of a fluid at a point . →The velocity potential → Acceleration of fluid. →The equation of continuity	3/3/25-24/3/25	To local and particle the . vorticity vector.	Internal assessment, mcq's, assignments.	Stream lines ,path lines and streak the l equations of cartesian.
2	→Euler s equations of motion →velocity potential →Kelvins circulation theorem	26/3/25-30/4/25	To equation of motion of fluid	Internal assessment, mcq's, assignments.	Physical meaning of stream function
3	→Lagrange's equation of motion →The theorem of blasius →The magnus effect.	2/6/25-30/6/25	To applications of circle theorem	Internal assessment, mcq's, assignments.	The complex potential general theory of irrotational
4	→Elliptic coordinate →Two dimensional irrotational motion produced by motion of circular cylinder	2/7/25-10/8/25	Equations of motion of a circular cylinder	Internal assessment, mcq's, assignments.	Solve initial and boundary value problem in differential equation

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LESSON PLAN (2024-25)

DEPARTMENT OF MATHEMATICS

M.SC (SECOND YEAR)

SEMISTER – III

SUB: FINITE DIFFERENCE METHODS **HRS : 6 hrs/week**

NAME : ASMA MATEEN HUSSAIN

UNITS	TOPICS	No.of classes	OBJECTIVE	ASSESSMENT	Learning OUTCOME
1	→Introduction →Routh hurwitz criterion →Difference methods	25/9/24-24/10/24	Partial differential equations	Internal assessment, mcq's, assignments.	Partial differential equations
2	→Spherical and cylindrical coordinate system. →One space dimensions →Two space dimensions	25/10/24-25/11/24	Difference methods for parabolic partial differential equation	Internal assessment, mcq's, assignments.	Difference methods for parabolic partial differential equation
3	→Introduction →One space dimensions →Two space dimensions	26/11/24-30/12/24	To Understand the consequences of system of first order equations	Internal assessment, mcq's, assignments.	To Understand the consequences of system of first order equations
4	→Difference methods for linear boundary value problems →Equation I polar coordinates.	31/12/24-23/12/24	To Sketch curves in Cartesian and polar co-ordinate systems.	Internal assessment, mcq's, assignments	Sketch curves in Cartesian and polar co-ordinate systems.

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DEPARTMENT OF MATHEMATICS

TEACHING LESSON PLAN **2024-2025**

Course Name : **VISCOUS FLOW**

Program Name : M.SC [APPLIED MATHEMATICS]

Faculty Name Shaik Abdul Hafiz

SEMESTER -III, PAPER-II

UNIT	TOPIC	NO. OF CLASSES	OBJECTIVE	TEACHING AID	ASSESSMENT	LEARNING OUTCOME
1	Vertex motion – Vorticity - Properties of Vortex filament Kelvin's proof of performance. Helmholtz vorticity theorems ,Strength of vortex Motion due to circular vertices, Rectilinear vortices ,Complex potential of a two dimensional Vortex motion , Centre of vortices ,Two vortex filaments, Vortex Pair ,Vortex doublet or Dipole , Image of a vortex filament in a plane Vortex inside and outside Circular Cylinder ,Rectilinear vortex with circular section.	25/9/24 TO 24/10/24	To introduce the fundamental principles of vortex motion, including vorticity, vortex filaments, and their properties, and to explore theoretical results such as Kelvin's and Helmholtz's theorems	Problem solving method Lecture method Seminar	Lecture method Seminar	students will be able to explain the dynamics of vortex filaments, apply Helmholtz's and Kelvin's theorems, and analyze the motion and interaction of various vortex systems
2	General theory of Stress and rate of strain : Viscosity –Measurement of viscosity-Stress Tensor –Stress components in a Real fluid – Relations between Cartesian components of Stress –Translation	25/10/24 TO 25/11/24	To develop a foundational understanding of stress and rate of strain in real fluids, explore the concept of viscosity, and derive the Navier-Stokes equations	Problem solving method Lecture method Seminar	Problem solving method Lecture method Seminar	students will be able to describe the stress tensor in a real fluid, explain how viscosity influences laminar flow

	motion of Fluid Element –Stress Analysis in Fluid motion –The coefficient of Viscosity and Laminar Flow- The Navier-Stokes equation of motion of a viscous fluid.		governing the motion of viscous fluids			
3	Laminar Flow of Viscous Incompressible Fluid :Steady motion between to parallel plates – Plane Couette flow , Generalized plane Couette flow –Plane Poiseuille flow- Flow through a circular pipe –The Hagen Poiseuille flow –Steady viscous flow in tubes of uniform cross section- A uniqueness Theorem-Steady motion in Tubes having uniform Elliptic cross section and Tubes having equilateral triangle cross section – Unsteady over a flat plate	26/11/24 TO 30/12/24	To analyze steady and unsteady laminar flows of a viscous incompressible fluid in various geometries, including flow between plates, through circular and non-circular tubes, and over flat surfaces.	Problem solving method Seminar	Problem solving method Seminar	students will be able to derive and explain velocity profiles for classic laminar flows such as Couette flow, Poiseuille flow, and Hagen-Poiseuille flow
4	Dynamical similarity-Flow similarity-Dimensional Analysis – Buckingham Π theorem Boundary Layer Theory –Prandtl's boundary layer theory –Boundary layer thickness-Displacement thickness-Momentum thickness – Energy thickness –Boundary solution of boundary layer Equation –Von Karman's integral Relation by Momentum Law	31/12/24 TO 23/12/24	To understand the principles of dynamical and flow similarity through dimensional analysis using the Buckingham π theorem, and to study the fundamental concepts a	Problem solving method Seminar	Lecture method Seminar	students will be able to apply dimensional analysis to derive dimensionless groups, explain the significance of boundary layer parameters such as displacement and momentum

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DEPARTMENT OF MATHEMATICS
LESSON PLAN FOR 2024-2025

Teaching Lesson Plan for **Linear Algebra**

Program: M.Sc. [APPLIED MATHEMATICS] –**II Year** , SEMESTER -**3**. PAPER-**III**

SUBJECT OBJECTIVE: To equip the students with different methods of solving different problems.

PROCESS: Lecture method, Problem solving method. **OUTPUT**: Better understanding of different concepts

ASSESSMENT:Project, Seminar, Assignment.

LESSON PLAN FRAME WORK [UNIT WISE]

Faculty Name : Shaik Abdul Hafiz.

UNIT/ MONTH	TOPIC	PROCEDURE	LEARNING OUTCOME	ASSESSMENT
25/9/2024 to 24/10/2024	Characteristics values , Annihilating polynomials , Simultaneous triangulation and Diagonalization	Problem solving method Seminar	Understanding of Elementary Canonical forms	MCQ'S, Assignments
25/10/2024 to 25/11/2024)	Invariant Direct sums, The Primary Decomposition Theorem ,The Rational and Jordan Forms: Cyclic Subspaces and Annihilator	Problem solving method Seminar	Understanding of Direct sum Decomposition,	MCQ'S, Assignments
26/11/2024 to 30/12/2024)	Cyclic Decompositions and the Rational Form, The Jordan Form, Computation of Invariant Factors, Semi Simple Operators	Problem solving method Seminar	Understanding Cyclic Decompositions and the Rational Form	MCQ'S, Assignments
31/12/2024 to 23/1/2025)	Bilinear Forms, Symmetric Bilinear Forms, Skew - Symmetric Bilinear Forms, Groups Preserving Bilinear Forms	Problem solving method Seminar	Understanding concept of Bilinear Forms	MCQ'S Assignments

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LESSON PLAN (2024-25)

DEPARTMENT OF MATHEMATICS

M.Sc II yr Semester III

SUBJECT : OPERATIONS RESEARCH HRS : 6 hrs/week

NAME : ASMA MATEEN HUSSAIN

Units	Topics	No.of classes	Objective	Assessment	Learning outcomes
I	Graphical solution of linear programming problem	25/9/24-24/10/24	To solve and the simplex method and two phase method	Internal assessment, mc q's, assignments	To solve and the simplex method and two phase method
II	Mathematical formulation of assignment problem and assignment problem	25/10/24-25/11/24	To apply definition of travelling salesman problem as an assignment problem	Internal assessment, mc q's, assignments	To apply definition of travelling salesman problem as an assignment problem
III	Concept of dynamic programming bellmans principle of optimality	26/11/24-30/12/24	To apply Definition of multiplicatively constraint and additiveiy separable return	Internal assessment, mc q's, assignments	To apply Definition of multiplicativeiy constraint and additiveiy separable return
IV	Historical development of CPM\PERT techniques	31/12/24-23/1/25	To apply definition forward pass and backward pass computations	Internal assessment, mc q's, assignments	To apply definition forward pass and backward pass computation

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DEPARTMENT OF MATHEMATICS

LESSON PLAN FOR 2024-2025

Course Name: Numerical Analysis.

Program: M.Sc.[APPLIED MATHEMATICS] –**II Year** , SEMESTER -**3**, PAPER-**V**.

Faculty Name :- Shaik Abdul Hafiz

Course Objective: Better understanding of numerical analysis and theorem based on it.

MONTH	TOPIC	PROCEDURE	LEARNING OUTCOME	ASSESSMENT
25/9/2024 to 11/10/2024	Bi-section method Secant method. Regular falsi method	Problem solving method Lecture method Seminar	To Obtain numerical solution of algebra and transcendental equations.	MCQ's, Assignments
14/10/2024 to 24/10/2024)	N-R method. Rate of convergence Direct method	Problem solving method Lecture method. Seminar	To Obtain numerical solution of algebra and transcendental equations To Find numerical solution of system of linear equation	MCQ's, Assignments
25/10/2024 to 14/11/2024)	Gauss elimination method Partition method,Gauss Seidal iteration method	Problem solving method Seminar	To Find numerical solution of system of linear equation	MCQ's, Assignments
16/11/2024 to 29/11/2024)	Lagrange and newton interpolation	Problem solving method Seminar	To Learn about various interpolating and extrapolating methods.	MCQ's, Assignments
(02/12/2024 to 23/12/2024)	Finite difference operation Hermite interpolations	Problem solving method Seminar	To Learn about various interpolating and extrapolating methods	MCQ's Assignments
30/12/2024 to 20/1/2025)	Composition integration methods. Taylor series method R-K method.	Problem solving method Seminar	To Solve initial and boundary value problem in differential eq's using numerical methods	MCQ's Assignments

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DEPARTMENT OF MATHEMATICS
LESSON PLAN FOR 2024-2025

Teaching Lesson Plan for **Integral Equation & Calculus of Variation**

Program: M.Sc. [APPLIED MATHEMATICS] –**II Year** , SEMESTER -4, PAPER-I

Faculty Name : Shaik Abdul Hafiz.

UNIT/ MONTH	TOPIC	PROCEDURE	LEARNING OUTCOME	ASSESSMENT
1 FEB -Mar (22.02.2025 to 6.03.2025)	Basic concepts - Relationship between Linear differential equations. Solution of Integral equation by Resolvent Kernel - The method of successive approximations - Convolution type equations - Solution of Integro-differential equations with the aid of the Laplace Transformation	Problem solving method Seminar	Understanding Concept of Volterra Integral Equations	MCQ'S, Assignments
2 Mar-April (7.03.2025 to 12.04.2025)	Fundamentals – The Method of Fredholm Determinants - Iterated Kernels constructing the Resolvent Kernel with the aid of Iterated Kernels - Integral equations with Degenerated Kernels. Hammerstein type equation - Characteristic numbers and Eigen functions and its properties	Problem solving method Seminar	Understanding the concept Fredholm Integral Equations	MCQ'S. Assignments
3 April (15.04.2025 to 29.04.2025)	Definitions of Functionals – Variation and Its properties - Euler's' equation. - Variational problems. Euler Poisson equation	Problem solving method Seminar	Understanding and solving different types	MCQ'S. Assignments
4 June (5.06.2025 to 28.06.2025)	Euler's equations in two dependent variables - Variational problems in parametric form - Application of Calculus of Variation - Hamilton's principle - Lagrange's Equation. Hamilton's equations and Applications.	Problem solving method Seminar	Understanding concept of error .	MCQ'S Assignments

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DEPARTMENT OF MATHEMATICS
LESSON PLAN FOR 2024-2025

Teaching Lesson Plan for **FINITE ELEMENTS METHOD**
Program: M.Sc. [APPLIED MATHEMATICS] –**II Year** , SEMESTER -**4**, PAPER-**II**
Faculty Name : Shaik Abdul Hafiz.

UNIT/ MONTH	TOPIC	PROCEDURE	LEARNING OUTCOME	ASSESSMENT
1 FEB -Mar (20.02.2025 to 5.03.2025)	Weighted residual methods –Least square method. Partition method - Galerkin method- Moment method –Variational Methods – Ritz Method	Problem solving method Seminar	Understanding different weighted residual methods	MCQ'S, Assignments
2 **Mar-April (6.03.2025 to 10.04.2025)**	Finite elements: Line segment Element –Triangular Element –Rectangular Elements with examples- Numerical integration over finite elements	Problem solving method Seminar	Understanding different types of finite elements	MCQ'S, Assignments
3 **April (11.04.2025 to 29.04.2025)**	Finite Element Methods: Ritz Finite element method-Least square finite element method- Galerkin finite element method- Boundary Value problem in PDE's (with linear triangular element)- Mixed boundary conditions- Boundary points- Examples	Problem solving method Seminar	Understanding and solving different types finite element methods	MCQ'S, Assignments
4 **June (4.06.2025 to 30.06.2025)**	Eigen value problems –Finite Element Error Analysis Approximation Errors –Various measures of Error- Convergence of solution- Accuracy of the solution - Example	Problem solving method Seminar	Understanding concept of error , accuracy and convergence	MCQ'S Assignments

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DEPARTMENT OF MATHEMATICS

LESSON PLAN FOR 2024-2025

Course Name: FUNCTIONAL ANALYSIS

Faculty :Shaik Abdul Hafiz

Program: M.Sc. [APPLIED MATHEMATICS] **II** Year

SEMESTER **IV** -, PAPER- III

TOPIC	NO. OF CLASSES	OBJECTIVES	TEACHING AID	ASSESSMENT	LEARNING OUTCOME
Normed Spaces - Banach Spaces - Further properties of normed spaces - Finite dimensional normed spaces and sub spaces - compactness	18/02/2025 to 20/03/2025	To understand the foundational properties of finite-dimensional normed spaces and their subspaces,	Problem solving method Lecture method Seminar	MCQ'S, Assignments	students will be able to explain why every finite-dimensional normed space is a Banach space and describe the conditions under which subsets of these spaces are compact.
Linear Functionals - normed spaces of operators - Dual space - Inner product space - Hilbert Space - Further Properties of Inner product	21/03/2025 to 17/04/2025	To explore the structure and properties of inner product spaces leading to Hilbert spaces.	Problem solving method Lecture method	MCQ'S, Assignments	students will be able to define the dual space of a normed space, explain the significance of inner product spaces,
Series related to Orthonormal Sequences and sets - Total Orthonormal sets and sequences - Representation of Functions on Hilbert spaces - Hilbert-Adjoint Operator	21/04/2025 to 10/06/2025	To study orthonormal sequences and sets in Hilbert spaces and understand how they are used to represent functions.	Problem solving method Seminar	MCQ'S, Assignments	students will be able to identify total orthonormal sets in Hilbert spaces and use them to represent functions as convergent series expansions.
Hahn-Banach Theorem - Hahn-Banach Theorem for Complex Vector Spaces and Normed Spaces - Adjoint Operator-	11/06/2025 to 05/07/2025	To understand the Hahn-Banach Theorem in both real and complex normed spaces,	Problem solving method Seminar	MCQ'S Assignments	students will be able to state and apply the Hahn-Banach Theorem in various settings.

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LESSON PLAN (2024-25)

DEPT OF MATHEMATICS

M.SC (SECOND YEAR) **HRS : 6 hrs/week**

SEMISTER – IV

NAME: ASMA MATEEN HUSSAIN SUB: MAGNETO HYDRO DYNAMIC

UNITS	TOPICS	No.of classes	OBJECTIVE	ASSESSMENT	Learning OUTCOMES
1	→Introduction →A brief remainder of the law of electrodynamics. →governing equations of electrohydro dynamics	17/2/25-28/2/25	To Solve magneto hydro dynamic	Internal assessment, mcq's , assignments.	Solving system of linear equations.
2	→Transport equation for imposed magnetic field →The significance of faraday, s law →Angular momentum and Biot-savart law	3/3/25-27/3/25	To solve Faraday's law in ideal conductors	Internal assessment, mcq's , assignments.	Qualitative analysis of system of linear equations. Diffusion of a magnetic field
3	→Advection in ideal conductors Alfven's theorem →Magnetic helicity.	2/4/25-30/4/25	To Kinematics of MHD.	Internal assessment, mcq's , assignments.	The generation by differential
4	→Advection and diffusion →Azimuthal field →Magnetic reconnection	7/6/25-10/7/25	To the solving differential equation	Internal assessment, mcq's , assignments.	

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LESSON PLAN (2024-25)

DEPARTMENT OF MATHEMATICS

M.Sc II yr Semester IV

SUBJECT : ADVANCED OPERATIONS RESEARCH **HRS : 6 hrs/week**

NAME : ASMA MATEEN HUSSAIN

Units	Topics	No.of classes	Objective	assessment	Learning outcomes
I	Characteristics of game theory and saddle points	17/2/25-27/2/25	To solve graphical method for (3x3) games without saddle point	Internal assessment, mcq's, assignments	To solve graphical method for (3x3) games without saddle point
II	Analytical structure of inventory problem ABC analysis	3/3/25-27/3/25	To apply The notion of convergence.of EOQ with and without shortage	Internal assessment, mcq's, assignments	To apply The notion of convergence of EOQ with and without shortage
III	Non-linear programming -unconstrained problems of maxima and minima	2/4/25-30/4/25	To Apply formulation of non-linear programming problems	Internal assessment, mcq's, assignments	To Apply formulation of non-linear programming problems
IV	Simplex method for quadratic programming	2/6/25-10/7/25	To Apply quadratic problem	Internal assessment, mcq's, assignments	To Apply quadratic problem

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Lesson Plans

M.Sc. Biotechnology

I-IV Semesters

2024-2025

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M.Sc. Biotechnology (2024 – 2025)

Teaching Lesson Plan

Class: I year **Semester: I**

Paper: I (Cell biology &Genetics) **Name of the Faculty: Owais Ul Haq**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aind Used	Assessment	Outcomes
Unit I: Internal Organization of Cell & Principles of Inheritance	• Chromosome- morphology, classification, karyotyping; Chromosome theory of inheritance;Featuresofcentromereandtelomere;Specializedchromosomes-polytene& lamp brush chromosomes; Variation in chromosome number-euploidy, aneuploidy;Variationinchromosomestructure-deletions,duplication,translocations andinversions • Law of segregation & Law of independent assortment- test cross and back cross; Extension to Mendel's Laws- Incomplete dominance (e.g. Flower Color), Co- dominance (e.g. MN Blood groups); Non allelic interactions- Types of Epistasis, modification of dihybrid ratios; Multiple Allelism (e.g. Coat color in Rabbits, eye color in Drosophila, ABO Blood groups, Rh blood groups)-incompatibility and pseudoallelism,Complexloci-R-locusinmaize	15	To comprehend the biochemical and molecular processes of cell division and cell death.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

	• Penetrance and Expressivity (e.g. Polydactyly, Waardenburg Syndrome), Pleiotropism (e.g. BardetBiedel Syndrome, Marfan syndrome), Phenocopy (e.g. Microcephaly) • Sex determination in Drosophila, Birds, Man and Bonellia; X-linked inheritance- Hemophilia, Color blindness, Lyonization; Y-linked inheritance-Holandric genes; Sex limited and sex influenced characters; Inheritance patterns in Man-Pedigree analysis • Polygenicinheritance,Additiveeffect-Skincolorinman,Kernelcolorinmaize • Non- Mendelian inheritance-Maternal inheritance-Variegation in leaves of higher plants-Mirabilisjalapa,PokyinNeurospora,Maternaleffect-Shellcoilinginsnails, Uniparental inheritance-mutations in extra nuclear genes in Chlamydomonas, Male sterilityinMaize,S-geneinNicotiana					
Unit II: Chromatin organization, Linkage and gene mapping	• Chromatin organization- Nucleosome, loops and scaffolds; Nucleosomephasing • Chromatinundertranscription-euchromatinandheterochromatin • Cytologicalproofofcrossingover-CreightonandMcClintock'sexperiment, correlationbetweenchiasmataandcrossingover • Phasesoflinkage,testcross,recombinationfrequency, genemapping,determination ofmapdistancesbasedontwoandthreepointtestcrosses ,coincidence,interference • e.g. Drosophila, Maize • Tetradanalysis-Neurospora;Mitoticcrossingover-Aspergillus,Drosophila • Genemapping-Geneticmapping,sibpairs,LODscores,homozygosity	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

	mapping, LinkagedisequilibriumandTransmissiondisequilibrium(TDT)test					
Unit III: Cell Division and Cell Death	• Cell cycle:Phases • Checkpointsincellcycle,Cyclins,CDKs • Mechanicsofcelldivision-anoverviewofM-Phase,differentstagesofmitosis (cohesins and condensins in chromosome segregation; microtubules in spindle assembly,structureofkinetochore,centrosomeanditsfunctions,sisterchromatid separation;cytokinesis,actin&myosininthegenerationofcontractilering)and significance • Meiosis–stages(chiasmaformation-synaptonemalcomplex;recombinationduring meiosis-recombinationnodules)andsignificance • Senescence,Necrosis–classification,morphologicalpatternsofnecrosis,causesof necrosis • Apoptosis-programmedcelldeath;mechanismsofapoptosis;apoptosistriggeredby internal signals; apoptosis triggered by external signals; apoptosis inducing factor; apoptosisincancer,programmedcelldeathinplants	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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M.Sc. Biotechnology (2024 – 2025)
Teaching Lesson Plan

Class: I year **Semester: I**

Paper: II (Biological chemistry) **Name of the Faculty: Dr. Shazia Ahmad**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Carbohydrates, metabolism & Biomolecules, Bioenergetics and Enzymology	• Carbohydrates (Classification-monosaccharides, disaccharides, oligosaccharides & polysaccharides) • Lipids(Classification-fattyacids,steroids) • Aminoacids,Proteins(Primary,secondary&tertiarystructures) • Nucleicacids(Purines&pyrimidines) • Lawsofthermodynamics,Gibbsfreeenergy,Enthalpy,Entropy,Catalysis • Enzymes and enzyme kinetics, Briggs-Haldane reaction, Michaelis-Mentenequation Coenzymes,Cofactors,enzymeregulation • Glycolysis, TCA cycle and Electron transport chain • Gluconeogenesis, Glycogenesis and Glycogenolysis • Glucuronic acid cycle • Pentose phosphate pathway • Entner-Doudoroff pathway, Cori cycle	15	To learn the cellular signally prossess.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	Understanding of how cells communicate and carry out Physiological processes. Understanding the basics about bimolecular ,Bioenergetics and enzymology

Unit II: Metabolism of lipids and amino acids	• Hydrolysis of triacylglycerols • β-oxidation, Fatty acid biosynthesis, Cholesterol metabolism • Biosynthesis of amino acids, Amino acid degradation, Urea cycle • Prostaglandin biosynthesis • Nitrogen metabolism: Nitrate and ammonium assimilation • Biosynthesis and degradation of purines and pyrimidines	15	To comprehend metabolism of Lipids, Nucleic acids and Amino acids.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	
Unit III: Cell Signalling	• Cell communication (autocrine and paracrine) • Second messengers and their role in signal transduction– cAMP, cGMP, phosphatidyl inositol derived second messengers, calcium as second messenger, Cell surface receptors in signal transduction • G-protein coupled receptor– structure and function; GPCR signalling pathways; Ion channel receptors • Tyrosine kinase linked receptors (receptors for cytokines), JAK-STAT pathway • Receptors with intrinsic enzyme activity (RTK) and RTK signaling pathways • Wnt signalling pathway; Toll-like receptor signalling pathway	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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DEPARTMENT OF BOTANY

Teaching Lesson Plan Format

2024-2025

Subject: Bryophyta and Pteridophyta, P- II **Semester: I**

Class: M.Sc. Previous **Name of the Faculty: Syeda Maimona Hussain**

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT - I 1. General characters and Classification systems (proposed by Smith) of Bryophytes.	OCT. 18.... NOV. 19 14	To explain the Classification. Study of Applied aspects of Bryophyta. Identification and study of Plants.	Lecture and Discussion Online Tools, Lap top, Videos, PPts.	Assignments Internal Assesments.	

2. Distribution, structure and reproduction of the following groups: a) Marchantiales; Targionia b) Jugarmanniales- Porella c) Anthocerotales- Anthoceros, Notothyllas d) Sphagnales – Sphagnum e) Polytrichales- Polytrichum. 3. Structure and evolution of gametophyte in Bryophytes 4. Structure and evolution of sporophytes in Bryophytes 5. Economic importance of Bryophytes	14	To understand the concept of all type studies. To acquire the knowledge of Web Resources for Plants. To Understand evolution of gametophyte and sporophytes in Bryophyta.	Section cuttings Lecture and Discussion Slides and Specimens Section cuttings Online Tools, Lap top, Videos, PPts.	Question and Answers Sessions. Question Banks.	Students understand the concept of Division of Bryophyta and Sub Divisions, their charaters, variations and Economic importance. Students understand the Concept of evolution of gametophyte and sporophytes in Bryophyta. and its application in Research. Identification of Fossils through Web Resources.

UNIT - II 1. General characters and classification system proposed by Sporne in Pteridophyta. 2. Distribution, structure and reproduction of the following groups: a. Psilotales- Psilotum b. Lycopodiales- Ophioglassum c. Selaginellales-Selagenella d. Isoetales- Isoetes e.Equisetales-Equisetum	NOV. 20... to JAN. 6 20	To explain the Classification. Study of Applied aspects of Pteridophyta. Identification and study of Plants. To understand the concept of all type studies. To acquire the knowledge of Web Resources for Plants.	Slides and Specimens Section cuttings	Question Banks. Quiz. Internal Assesments.	Students understand the concept of Division of Pteridophyta and Sub Divisions, their characters and variations.

f. Filicales - Adiantum, Salvinia, Azolla 3. Telome theory & its application 4. Stelar evolution in Pteridophytes. 5. Heterospory & seed habit					Students understand Merits and Demerits of Telome Theory.

UNIT- III 1. Paleobotony: Introduction, Fossil Fossilization, and types of plant fossils 2. Fossil Bryophytes. 3. Geological time scale and carbon dating 4. Origin & evolution of early vascular plants 5. General characters of Lepidodendrales, Calamitales and Sphenophyllales.	JAN. 8 to FEB. 10 15	Concept of Telome Theory and types of fossils. Understand Merits and De Merits of Telome Theory. Cassificatory Systems, their Significance and Role in Evolution. Study of Evolution of Pteridophytes Fossils. Steps , categories and methods of Fossilization.	Online Tools, Lap top, Videos, PPts. Slides and Specimens	Internal Assesments. Assignments Question and Answer Sessions.	Study of Evolution of Pteridophytes Fossils. Signature

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Teaching Lesson Plan (2024-25)

Subject: Cell Biology, Genetics and Biostatistics, P- I **Semester: III**

Class: M.Sc. Final **Faculty : Syeda Maimona Hussain**

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I. Cell biology 1.1.Principles Microscopy-Microscopy. Principles and application of Light microscopy, Fluorescent microscopy Electron	Oct. 14 to Nov. 21 16		Lecture and Discussion Online Tools, Lap top, Videos, PPts.	Internal Tests Internal Assesments. Assignments	

microscopy -SEM, TEM) 1.2.DNA replication: Semi-conservative DNA replication, Enzymes involved in replication, DNA Polymerase enzyme in Eukaryotes and Prokaryotes. Split genes (Introns and Exons) 1.3.Regulation of Gene Expression - Prokaryotes (Lac Operon), Eukaryotic Gene expression and Regulation (Promoters, Transcription factors and Enhancers). 1.4.Cell cycle: Mitosis - overview of	15	To explain DNA structure, replication and its role. To Understand the gene expression in prokaryotes (Lac-operon) and eukaryotes. .	Online Tools, Lap top, Videos, PPts. Lecture and Discussion.	Question and Answer Sessions.	Students are able to understand the DNA structure, replication and its role. Able to differentiate between the gene expression in prokaryotes (Lac-operon) and eukaryotes.

stages and importance. Meiosis I & II stages and significance. Meiosis - overview of 1.5.Cell cycle regulations: Role of Cyclins and Cyclin-dependent kinases in Progression of the cell cycle, Maturation Promoting Complex (MPF), Apoptosis and Programmed Cell Death (PCD), Uncontrolled cell division – Anaplasia		Concept of Definition of Gene mutations, Transposon-induced mutations; Site-directed mutagenesis can be understood by the students. Students understand the difference between different Ratios and apply knowledge in		Question and Answer Sessions Assignments	Students acquire the knowledge about Apoptosis and Programmed cell death.

UNIT II. Genetics 2.1 Mendelian Inheritance: Mendel's experiments, Mendel's Laws of inheritance, Testcross and Backcross, Incomplete dominance, Codominance, Deviations from Mendel's Inheritance 2.2. Gene interactions: Dominant epistasis (12:3: 1), Recessive epistasis (9:3:4), Complementary	NOV. 22 -- JAN. 7 16	solving Genetics Problems. To understand the concept of Extra nuclear inheritance.	Lecture and Discussion Online Tools, Lap top, Videos, PPts. Lecture and Discussion	Internal Tests Internal Assesments. Assignments Question and Answer Sessions.	Apply knowledge in solving Genetics Problems.

genes(9:7). Duplicategenes (15:1). 2.3. Linkage: Linkage groups, Types of linkage, Coupling and Repulsion phase. Crossing over Mechanism of Crossing over. Chromosome mapping in Eukaryotes (Two points and Three-point test cross) 2.4.Inherited Human diseases: Hemophilia. Sickle cell Anemia. Muscular Dystrophy (M.D.).	20	Students learn the Techniques of tissue culture. To understand the concept of blotting methods and fingerprinting Apply knowledge of Breeding Techniques.	Online Tools, Lap top, Videos, PPts	Internal Tests Internal Assesments. Assignments	

2.5.Extra Nuclear inheritance: Mitochondrial inheritance - Petite mutants in Yeast. Male sterility (Cytoplasmic. Genetic and Cytoplasmic -genetic male sterility). **UNITIII. Biostatistics** 3.1.Biostatistics: Introduction-Variables (Random. Discrete and Continuous), Diagrammatic representation of Data (Line, Bar and Pie Diagrams). Graphical	NOV. 22. to JAN. 24	To understand the concept of Bioinformatics. Learn the importance of Mean, Variance, Standard deviation, Standard error, Chi-square and Student's "t" test. Probability.		Question and Answer Sessions. Problems	Learn Breeding Techniques and apply in research work.

representation of Data (Frequency Curve, Polygon and Histograms). 3.2 Population Genetics: Hardy-Weinberg Law, Gene pool, Gene frequency and Genotype Frequency. 3.3. Measures of Central Tendency-Mean, Median, Mode Measures of Dispersion-Variance, Standard Deviation (S.D.), Standard Error (S.E.), Coefficient of Variance.		Learn the use of computers.		Internal Tests Internal Assesments. Assignments Question and Answer Sessions. Problems	Apply knowledge of Mean, Variance, Standard deviation, Standard error, Chi-square Student's "t" test and Probability to solve the problems of science.

3.4. Test of significance: Null hypothesis, Alternate hypothesis, Chi-square test, Student's t-test. 3.5. Probability: Concept of Probability, Probability distribution (Binomial, Poisson and Normal).					

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Teaching Lesson Plan (2024-25)

DEPARTMENT OF BOTANY

Subject: Anatomy & Palynology P III **Semester: II**

Class: M.Sc. Previous **Faculty : SYEDA MAIMONA HUSSAIN**

Topic/Unit/Chapter Unit I	No. of Classes	Objective	Teaching A Used	Assessment	Outcomes

UNIT -I 1. Introduction, importance and relationships of Plant Anatomy. 2. Shoot Development: a) Recent views on organization of shoot Apical Meristem and types of vegetative shoot apex in Gymnosperms and Angiosperms. b) Cytological zonation – Anneaun initial and Meristem :c) d' attente d) Sub-apical differentiation of tissues. 3. Root Development: a) Organization of root	MAR 10 to APR 11 20 classes.	To explain the Definition and importance of. Anneaun initial and Meristeme d' attente.	Lecture and Discussion Online Tools, Lap top, Videos, PPts. Lecture and Discussion	Internal Tests Internal Assesments. Assignments Question and Answer Sessions.	Students are able to understand the Definition and importance of. Anneaun initial and Meristeme d' attente.

apex and significance of Quiscent center b) Recent experimental studies on differentiation of tissues. 4. Leaf: Structure with reference to C3 and C4 plants – Kranz anatomy and its importance. 5. Epidermology: Structural composition of Epidermal cell complex, Stomatal complex and Trichome complex. Classification of stomata ans trichomes. UNIT -II 1. Secondary growth with reference	Apr. 12 to June. 17	To understand the concept of Quiscent center. To Understand the difference between C3 and C4 plants. To understand the concept of trichomes. Students acquire the knowledge of Stomatal complex.	Online Tools, Lap top, Videos, PPts. Lecture and Discussio n Online Tools, Lap top,	Assignments Internal Tests Internal Assesments.	Students acquire the knowledge of . Quiscent center. Able to differentiate between the. C3 and C4 plants. Students able to differentiate types of trichomes. Students acquire the knowledge of Stomatal complex

to Dicot stem. Structure and functions of vascular cambium. 2. Dicot wood anatomy: Morphology and arrangement of Vessels. Tyloses . Distribution of the Axial Parenchyma, Ray parenchyma and wood fibres. 3.Periderm: Origin of Phellegen, Phellum and Phelloderm and Lenticels. 4.Wood structure: Macro and Microscopical characterstics of wood, Wood	15 classes	To explain the Definition and importance xylem and its elements. To Understand the difference between Axial Parenchyma and Ray parenchyma. To understand the concept of Secondary growth with reference to Dicot stem.	Videos, PPts.	Question and Answer Sessions. Internal Tests Internal Assesments. Assignments Question and Answer Sessions.	Students able to explain the Definition and importance xylem and its elements. Students able to understand the concept of Secondary growth with reference to Dicot stem. To Understand the difference between Axial Parenchyma and Ray parenchyma.

maceraation, Sapwood and Heartwood, Porus wood and Non-porus wood. 5. Salient features of the following woods. a). Tectona grandis b).Dalbergia sissoo c).Mangifera indica d) Vachellia nilotica. Unit – III 1..Palynology: Definition, Scope, Techniques(Acetolysis)and importance. 2. Morphology of pollen – Polarity, symmetry, size and shape, aperture pattern, NPC	JUN. 17 – JULY 26	Students learn the Technique of Maceraation. Students learn to differentiate among a). Tectona grandis b).Dalbergia sissoo c).Mangifera indica d) Vachellia nilotica. Students learn the Technique of Acetolysis .		Question and Answer Sessions. Internal Tests Internal Assesments. Assignments Question and Answer Sessions.	Students able to differentiate among a). Tectona grandis b).Dalbergia sissoo c).Mangifera indica d) Vachellia nilotica. Students able to apply the Technique of Acetolysis .

Classification), exine stratification. Aeropalynology – Introduction and types of assergiv reactions in human beings. Applications of ELISA for diagnoses of pollen allergy in Clinical Palynology. 4. Melissopalynology– Introduction Applications of melissopalynology in codification of honeys. 5. Forensic Palynology: Introduction and	15 classes	Students learn to apply the knowledge of ELISA for diagnoses of pollen allergy.		Question and Answer Sessions. Internal Tests Internal Assesments. Assignments Question and Answer Sessions.	Students able to apply the knowledge of ELISA for diagnoses of pollen allergy.

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Teaching Lesson Plan (2024-25)

DEPARTMENT OF BOTANY

Subject: Paper-I Recombinant DNA Technology

Semester: IV

Class: M.Sc. Final

Name of the Faculty: Syeda Maimona Hussain

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT - I GENE CLONING 1. Genetic engineering: Introductioon, history and Importance of gene cloning. Basic steps ingene cloning. Application of AI in Gene editing. Biosafety measures. 2. Enzymes in gene cloning: Restriction endonucleases: type I, II, III, DNA ligases, alkaline phosphatases, reverse transcriptase. 3. Gene cloning Vectors: Plasmids (PBR 322), Bacteriophages, Cosmids,	MAR. 12 to APR. 17 24	To Understand the vectors used in cloning and its importance. To understand the concept of blotting.	Lecture and Discussion Online Tools, Lap top, Videos, PPts. Lecture and Discussion Slide shows	Assignments Internal Assesments. Question and Answers Sessions. Seminars	Students are able to understand the concept of genetic engineering & recombinant DNA technology. Students acquire the knowledge about vectors used in cloning and its importance. Apply knowledge in solving Genetics Problems.

Phagemids, YAC, BAC, Ti and Ri plasmids. 4. Gene libraries: Construction of Genomic library and cDNA libraries, advantages and disadvantages. 5. Selection of Recombinants – Screening of recombinationants by Marker genes, reporter genes, colony hybridization. **UNIT - II** ADVANCES In Rdna technology 1. Genomic Sequencing: DNA sequencing Maxam and Gilbert and Sangers method, Pyro sequencing. Next Generation Sequencing. 2. Gene knockout techniques, DNA foot printing, RNA i technology (mi-RNA, Si RNA). 2. Molecular markers: Defination, types and applications. Restriction Fragment Length Polimorohism (RFLP).	18 APR 18... JUNE. 16 20	To explain the DNA sequencing: To understand the concept of mapping. To acquire the knowledge of Gene amplification. To apply knowledge in Molecular diagnosis of human diseases.	Online Tools, Lap top, Videos, PPts. Lecture and Discussion Slide shows	Assignments Internal Assesments. Question and Answers Sessions. Seminars Question Banks.	Learn Blotting Techniques and apply in research work. Students are able to understand the DNA sequencing. Learn Techniques of sequencing and apply in research work. Apply knowledge in solving Genetics Problems. Apply knowledge in Molecular diagnosis of human diseases.

Randomly Amplified Polymorphic DNA (RAPD). 3. DNA finger printing. Methodology and Applictions in forensic science, Medico – ligal aspects. RNAI Technology. 4. Gene Therapy: Delivery techniques(Ex vivo & Invivo). Delivery vectors, aplications of gene therapy in inherited immunodeficiencce syndromes. Genome editing (CRISPR- Aas 9). 5. rDNA technology: Appliction of recombinant DNA technology in Medicine, Industry and Agriculture. UNIT: III TECHNIQUES IN Rdnatecnology. 1. Polymerase Chain Reeaction(PCR) and RT PCR:Principle, types components, enzymes employed and applications of PCR.	18 JUNE. 19 to JULY - 1	To acquire the knowledge of markers. To understand the concept of recent developments in stem cell research and cloning, Gene Therapy. To apply knowledge of rDNA technology. To acquire the knowledge of rDNA technology To understand the concept of PCR.	Online Tools, Lap top, Videos, PPts. Lecture and Discussion Slide shows Online Tools, Lap top, Videos, PPts.	Question Banks. Quiz. Internal Assesments. Assignments Internal Assesments. Question and Answers Sessions Assignments Internal Assesments. Question and Answers Sessions	Get knowledge of markers. Students are able to understand the concept of recent developments in stem cell research and cloning, Gene Therapy. Students are able to understand the concept of Genomics, functional genomics, proteomics. Apply knowledge of Bioinformatics. Acquire the knowledge of rDNA technology..

2. Gel electrophoresis : principle and methodology- Agarose Gel Electrophoresis (AGE) and Polyacrylamide gel electrphoresis(PAGE). 3.Blotting Techniques – Northern, Southern and Western Blotting. 4. Flourescence Techniques: Flouresence in Situ Hybridization (FISH) and Flourescence- Activated Cell Sorting (FACS) , Fluorochromes. 5. Autoradiography- Principle and Pplications. DNA Microarray and DNA chips.		To understand the concept of Gel electrophoresis. Learn different techniques.			

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DEPARTMENT OF BOTANY

Teaching Lesson Plans -2024-2025

Subject: Angiosperm Systematics , P III **Semester: I Class: M.Sc.**

Previous **Name of the Faculty: Dr. Sadia Fatima**

Topic/Unit/Chapter Unit I	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
1.Taxonomy and Systematics : History, Definition, Principles, objectives and Scope. 2. Taxonomic tools: Herbarium, floras, Botanical gardens, and Botanical Museums. 3. Biosystematics : Definition, Categories , Deme Terminology. Species concept – Taxonomic, Biological , Microspecies ,	1 to 14 NOV 19th to DEC 4th 2024 4-5	1. To explain the Definition and importance of Taxonomy in identification and classification of Plants. 2. Study of Applied aspects of Taxonomy and Taxonomic tools.	Lecture and Discussion Online Tools, Lap top, Videos, PPts. Online Tools, Laptop , Images.	Assignments Internal Assesments. Google images and virtual Herbarium. Question and Answers Sessions.	Concept of Taxonomy and Systematics, is analysed by the students. Students understand the concept of Taxonomic tools and their applications in Research.

Successional species. 4. Evolution of Angiosperms : Ancestral history, origin , dominance , Geography and Endemism. 5 Synthetic approaches in Systematics : Cytotaxonomy, Chemotaxonomy , Palynotaxonomy , Numerical and Molecular taxonomy (DNA Barcoding). **Unit II: 1. Plant** 1.Nomenclature origin and development of code , ICN for Algae , Fungi. Type concept ; Taxonomic rank , Publiction types , Rule	2 classes 7 classes. Nov 28th to Jan 3rd 2015 8 classes	3.Understand the concept of Biosystematics , Species concept and types. 4. To know how the angiosperms have evolved Study the Endemism of Angiosperms. Study of Applications of Taxonomy to various fields of science.	Online Tools, Laptop. Lecture and Discussion Online Tools, Lap top, Videos, PPts. Videos, PPts	Internal test, Question and Answers Sessions. Question Banks. Internal Tests Question Banks.	Students understand the Biosystematics , categories and analyse the species concept , micro and successional species. Evolution of Angiosperms , their distribution and Endemism can be analysed and comprehended.

of Priority , Author citations and Rejicienda.	7 classes	Know concept of ICN , Nomenclature, Author citations and Rejicienda.	Online Tools, Laptop	Internal Tests Internal test, Question and Answers Sessions.	Various branches and synthetic applications of Taxonomy and also the applications of DNA barcoding can be comprehended by the students. Students understand the importance of Nomenclature. Typification, Publication types, and Rejection of Names.
2. Classification of angiosperms: Natural, Artificial, Phylogenetic system of classification angiosperm classification: 3.Phylogenetic, Hutchinson, Cronquist Takhtajan – Advantages and Disadvantages. 4. Novel approaches in plant Taxonomy – Cladistics – Definition	12 classes.	2. Concept of Classification and types. Understand Merits and De Merits of Cassificatory Systems , their Significance and Role in Evolution.	Online Tools, Lap top, Videos, PPts. Videos, PPts.	Internal Assesments. Assignments Question and Answer	Students Analyse the different types of Classifications. Differentiates between Natural , Artificial and Phylogenetic classificatory systems. Merits and Demerits of different

and Methodology , Homology and Anology. 5.Introduction to and detailed account of updated version of APG system of classification. **Unit III: - APG -IV** Study of following families with particular reference to systematic position and economic importance- Sensu Stricto : 1. ANA grade Nymphaeales, Magnolids , Piperales. 2. Monocot families- Poaceae Dioscoreaceae	5 classes. Jan. 6th to 27th Jan. 2025 Jan 28 th 15 Classes Jan 28 th to Feb 8th 2025.	To understand the concept behind the application of cladistics in Taxonomy. Understand the New version of APG system of classification. Study the families based upon the phylogenetic trend, understand the importance , evolution and economic uses of families of Monocots and Dicots based on New APG Classification system .	Slide share. PPT , Notes and Slide share. Online Tools , PPT, Slide share and Google	Sessions. Question Banks. Internal Tests Internal Assesments Assignments, Charts. Question and Answer Session	classificatory ,systems. Students can comprehend the inmportance of cladistics and its applications in the field of Taxonomy. The learners can understand the importance of APG system of classification. Importance of Dicot and Monocot Families.

3. Commelinids – Zingiberaceae , Musaceae. 4. Eudicots – Ranunculales , Proteales, Nelumbonales , Fabales and Rosales. 5. Malvids – Combretales and Asterales. Ericales , Apiales , Lamiales and Gentianales.	6 Classes 4Classes Jan 27th to Jan 5th 2025		Images.	Internal Assesments. Assignments	Students understand the importance of Cladistics and Clades and also comprehend the economic importance of Dicot and Monocot Families based upon APG – IV System of Classification.

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Teaching Lesson Plans 2025

DEPARTMENT OF BOTANY

Paper II **Semester II**

Subject: BOTANY-GYMNOSPERMS AND EMBRYOLOGY OF ANGIOPERMS.

Class: MSC-PREVIOUS **Name of the Faculty: Dr. Sadia Fatima.**

Topic/Unit/Chapter	No. of Classes (From ---- --- to------)	Objectives	Teaching Aid Used	Assessment	Outcomes
UNIT-1 1.Progymnosperms : Introduction, classification Beck 1960. General characters of 1.Pityales 2. Protopityales 3. Aneurophytales.	2-3 17th March – 19th March	To understand the fossils .and their classifications.	Lecture Ppt Lcd\blackboard,chart, google images	Assignment Sliptest Question and answer	able to explain in detail about the classification of fossil ie . Progymnosperms
Fossil Gymnosperms : General Characters and affinities : Pteridospermales, Cordaitales, Bennettitales and Pentoxylales.	4-5	To know the characters and affinities among all the fossil groups.	Lecture Ppt Lcd\blackboard,chart, google images	Assignment Sliptest Question and answer	Students are able to understand Fossils of Pentoxylales and other extinct groups.
3.Origin, evolution and Distribution of	4-6	Study about	Lecture Ppt	Assignment Sliptest	students are able to understand about distribution of gymnosperms world wide past

extant gymnosperms- 4.Classification of gymnosperms-Sporne,Birbal Sinha , Chamberlain. Phylogenetic system , Y.Yang *etal 2022)* 5.Study of Gymnosperms diversity using GIS tools.	17th March to 27th march	distribution of Gymnosperms. Study about different classification system GIS and GPS tools.	Lcd\blackboard,chart LCD , Google Images.	Question and answer Question and Answer	and present. They can differentiate between various types of classifications. Students understand ,the use of GPS and GIS in studying distribution of Dymnosperms.
Unit II ; Extant Gymnosperms **6.**Conservation : Morphology ,Anatomy and Cones of Cycas , Ginkgo, Araucaria , Podocarpus and Gnetum.	7-8	Study of living Gymnosperms	PPT, Google Images , Laptop.	Assignment Sliptest, Quiz. Question and answer	The concept of Extant gymnosperms , Morphology and reproductive structures can be analysed.
6. Embryology of Gymnosperms : Pollination mechanism , Formation of Endosperm , Male and Female gametophytes and	8- 10 10 classes	Know and understand Embryology, endosperms Fertilization in Gymnosperms Students	PPT, Google Images , Laptop.	Assignment Sliptest, Quiz. Question and answer	Pollination , nature of Endosperm Gametophytes , Fertilization and Post fertilization changes can be comprehended.

Fertilization , Post 7. Post fertilization changes.		understand the reproductive structures and fertilization changes in Gymnosperms.	LCD and Videos	Quiz	Fertilization and types of Endosperms can be comprehended by the students.
8. Conservation , IUCN , Red list threatened Gymnosperms , Indian endemics , Eastern and western Himalayas.	4-5 26th June to 25th July 2025	Importance of conservation of threatened species.	PPT, Google Images , Laptop, slide share.	Assignment Sliptest. Quiz. Question and answer	Awareness about conservation of Gymnosperm species. Concept of Red List and conservation priority areas can be analysed.
9..Economic importance of gymnosperms	2-3	Study about economic importance of gymnosperms in detail	Lecture Ppt Lcd\blackboar d,chart	Assignment Sliptest Seminar Internal exam revision Question and answer	able to understand in deatail about economic importance of gymnosperms in various aspects.

Unit III 10.Microsporangium: Anther, sporogenous tissue, formation of pollen wall, vegetative and generative nucleus. 11. Megasporangium: Ovule, types of ovule, Nucellus, Megasporogenesis, embryosac types, a special account of mature embryosac.	4 classes 5-6 classes	To understand Structure and Function of M To understand To study Structure and Function of Megasporangium	Lecture Ppt Lcd\blackboard,chart Lecture Ppt Lcd\blackboard,chart	Assignment Sliptest Seminar Assignment Sliptest	Students understand the structure and function of Anther. Students understand the structure and function of Ovule. Students acquire the knowledge about Endosperm types and Development.

12. Fertilization: Double fertilization, self-incompatibility, barriers of fertilization.	5 classes. 26th July to 2nd August 2025.	To understand the concept of Fertilization	PPT, Video lessons.	Assesments, Slip tests.	Students comprehend the concept and consequences of Fertilization, Double fertilization and also understand aspects self incompatibility.

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DEPARTMENT OF BOTANY

Teaching Lesson Plan 2025

Subject: Plant Tissue culture and Biotechnology , Elective II A **Semester: III**

Class: M.Sc. Final **Name of the Faculty: Dr. Sadia Fatima**

Topic/Unit/Chapter Unit I	No. of Classes	Objectives	Teaching Aid Used	Assessment	Outcomes
1.1:Plant Tissue Culture Introduction ,composition and preparation of Culture Media, Sterilization procedures , culture techniques , Explants, Nutrients and Hormonal requirements. 1.2. Concept of Tissue	1 to 14	To acquire the knowledge and learn the composition and preparation of Tissue culture media. To study about the Nutrients and Hormonal requirements. To understand	Lecture and Discussion Online Tools, Lap top. Videos, PPts.	Assignments Internal Assesments. Question and Answers Sessions.	Students understand the concept of Tissue Culture and methods involved in the technique. Students understand the importance of nutrients and Hormones in plant propagation.

culture ,totipotency ,cyto differentiation, production of callus and suspension cultures , Invitro shoot regeneration and rooting.		concept of totipotency ,differentiation of callus. Invitro shoot and root regeneration.	Lecture and Discussion	Question Banks. Documentary and Videos.	Students acquire,concept of Totipotency, callus regeneration and suspension culture.
1.3. Morphogenesis from cultures (Organogenesis, caulo, rhizo and Embryogenesis), Field transfer , Acclimatization).	8 classes.	To acquire knowledge of Morphogenesis and Regeneration.	Documenta ry	Quiz.	Pupils understand the concept of Morphogenesis from Calli., through regeneration of cells.
1.4. Organ Cultures – Production of Pathogen free plants through vegetative and reproductive organs	7 classes	Understand production of pathogen free plants and organ culture.	Online Tools, Lap top, Videos, PPts.	Videos and ppts Practical Lab Sessions.	Acquire the protocol of Organ cultures and production of Pathogen free plants.

1.5. Somatic embryogenesis and production of Synthetic seeds , Somaclonal variations and their applications. **Unit II.**Applications of Plant tissue culture - 2.1.Various stages of Micropropagation , Application of Micropropagation in Horticulture and Forestry. 2.2. Protoplast culture, Isolation , culture and fusion of protoplasts . Somatic Hybridization 2.3. Anther culture , Production and significance of	1 to 14 14th Aug. to 28th Oct 2024. 4 8 classes.	To understand the concept of Cybrid cell and method of production of Synthetic seeds also study Somaclonal variations. Acquire knowledge on Micropropagation and its Applications. To acquire the concept of protoplasts fusion , Somatic Hybridization and Cybrid cells.	Lecture and Discussion Online Tools, Lap top, Videos, PPts. Video Lessons Lecture and Discussion	Assignments Internal Assesments. Question and Answers Sessions. Question Banks.	Students understand the concept of Somatic embryogenesis and applications of Somaclonal variations. Students comprehend the importance and Application of Micropropagation in various fields of Botany. Students acquire the concept of Somatic fusion. They also comprehend the formation of hybrid and cybrid cell. Anther structure, invitro culture , production and also importance of Anther

haploids.	7 classes	To study invitro culture of Anthers.	Online Tools, Lap top, Videos, PPts.	Quiz.	culture is comprehended by the students.
2.4. Invitro production of secondary metabolites from Medicinal plants and Hairy root cultures. 2.5. Invitro conservation and cryopreservation of Germplasm . Germplasm Banks ,(National and International). **Unit –III** Transgenic	1 to 14 29th oct to 14th Nov.	Study and understand the secondary metabolites and their production. To study the Invitro conservation and Germplasm Banks.	Lecture and Discussion Online Tools, Lap top, Videos, PPts. Lecture and	Assignments Internal Assesments. Question and Answers Sessions.	Students understand the importance of productivity of secondary metabolites through tissue culture and also get the concept of hairy root culture and its practical utility. Pupils understand the importance of cryopreservation and conservation of Germplasm banks.

Plants 3.1. Definition , steps in plant production. Methods of gene transfer in plants (Agrobacterium mediated and Microprojectile method.	8 classes.	To understand the concept of Transgenic plants.	Discussion Videos.	Question Banks.	Students understand the concept of Transgenesis and Gene transfer.
3.2. Transgenic plants resistance to Herbicides. –Flavor Savor Tomato and enhanced quality and nutrition : Golden Rice.	7 classes	To know the applications of Transgenic plants resistance to herbicides.	Online Tools, Lap top. Videos. PPts.	Quiz. Internal Tests.	Students acquire the concept of Transgenic plants resistance and nutritive value of genetically modoified , Flavr Savor Tomato and Golden Rice.
3.3. Transgenic plants resistance to fungal ,bacterial and viral diseases.	3 classes.	To understand the resistance of Transgenic plants to various microorganisms	Documenta ry, Video lectures.	Quiz. Internal Tests Assignments.	Learners acquire the knowledge of Transgenic plants resistance to diseases.
3.4. Transgenic plants resistance to Agricultural pests (BT brinjal and BT cotton).	3 classes.	Know the concept of transgenic plants resistance to agricultural pests.	Documenta ry, Video lectures	Quiz. Internal Tests Assignments	Learners understand Transgenic plants resistance to agricultural pests.
3.5. Current status of transgenic plants in the world. Role of		Know the			

Transgenesis in crop improvement.	4 classes. 18th Nov. to 28rd December.	importance of Transgenic plants and their role in crop improvement.	Documentary, Video lectures	Quiz. Internal Tests Assignments	Learners acquire the concept of transgenesis and their status in the world. They also comprehend the role of transgenics in crop improvement.

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Teaching Lesson Plan 2025

DEPARTMENT OF BOTANY

Core II : **Plant Ecology, Biodiversity and Conservation Biology** **Semester :IV**

M.Sc. Final **Name of Faculty : Dr. Sadia Fatima**

Core II – Plant Ecology , Biodiversity and Conservation Biology Topic/Unit/Chapter	No. of Classes	Objectives	Teaching Aids used	Assesments	Outcomes
Unit I: Ecology: 1.1. Ecosystem structure and function; Energy flow and Mineral cycling (C,N) Primary production. 1.2. **Population Ecology**: Characteristics of a population (Density ,Natality, Mortality ,Dispersion Population size, Age structure , Life tables);	1 to 15	To acquire the knowledge and Understand the Ecosystem structure and Function . Differentiaite between Food chain and Food web . , Energy Flow and Primary Productivity.	Lecture and Discussion Online Tools, Lap top, Videos, PPts.	Assignments Internal Assesments. Question and Answers Sessions.	Students understand the concept of Environment and interactions between the Biotic and Abiotic components, Ecosystem structure and Function . Differentiaite between Food chain and Food web . , Energy Flow and Primary Productivity. Students can understand concept of Population and Growth Curves. They can differentiate between Rand K selection of Species.

Population growth curves; Population regulation; life history strategies (r and K selection); **1.3.Species Interactions:** Types of Interactions,Positive interactions, Mutualism,Symbiosis, commensalism, Protocooperation 1.4..Negative interactions – Exploitation, Herbivors, Carnivors, antibiosis, competition. **1.5.Ecological Succession:** Types; mechanisms; Changes involved in succession; Concept of climax-Monoclimax and Polyclimax theories	8 classes. 10 classes 11th of March to 26th of April 2025 6 classes	To know the concept of Population. Study of different types of interactions among Species. To study succession in plants. To understand	Lecture and Discussion Online Tools, Lap top, Videos, PPts. PPts , Videos.Online Tools, Lap top, Videos, s	Question Banks. Quiz. Question and	Students analyse with examples Positive and Negative Interactions among the Species of a Population Students can differentiate between different type of Succession with Examples

Unit II : Biodiversity **2.1.Community Ecology:** Characteristics of communities Analytical Quantitative – Frequency, density, Abundance, Cover and Basal area.	4 classes	the theories of Succession..		Answers Sessions.	Students understand the concept of Community, Qualitative and Quantitative characters,
2.2. Qualitative – Physiognomy, Phenology,Stratification, sociability, vitality and Life form , Fidelity Dominance.); Raunkiaer concept : Levels of species diversity and its measurement;	8classes	To study Community concept and understand Qualitative and Quantitative characterts of Community.	PPts , Videos.Online Tools, Lap top,	Assignments . Internal Tests.	They understand Theoritical and Practical impementation of Raunkiaers Life forms.
2.3 . Principles of Biodiversity, Ecotones. Biodiversity: Genetic diversity,Major drivers of biodiversity change.		To analyze Raunkiaers Life forms.	PPts , Videos.Online Tools, Lap top,	Assignments . Internal Tests.	They can comprehend concepts of Biodiversity,Major drivers of Biodiversity change and Genetic diversity.
2.4. Measurements of Biodiversity : Species richness , Species evenness ,Diversity	10	Understand Biodiversity and major drivers of	Online Tools, Lap top,	Assignments . Internal Tests.	Students comprehend Species diversity , Species richness and also analyze the concept of Diversity indices.

indices –Shannon and Simpson's Index.	classes	Biodiversity.	Videos		
	4 classes	To understand measurements of Biodiversity in terms of Species richness and Diversity Indices.	Lap top, Videos, Documentary	Assignments . Internal Tests.	Pupils understand distribution pattern of Biodiversity at various levels.
2.5. Global distribution of Biodiversity : Distribution patterns , Biodiversity at global, national and local levels. India as Mega Biodiversity Nation , Global Biodiversity and its importance. Application of AI to analyze food webs and predict ecosystem stability.	14th June to 8th July 2025.	To know the importance of Biodiversity at various levels.	Lap top, Videos,	Assignments . Internal Tests.	Students learn the importance of Ecosystems through AI.
	8 classes	Understand food webs through AI tool.	Videos and Documentary	Assignments	Pupils acquire the knowledge of threatened species and their Conservation.
UNIT III : Conservation Biology 1.1. Strategies for Conservation : IUCN Red list , Categories of Threatened Species and criteria to differentiaie them.		To study nature and categorization of threatened	Videos, ppts and Documentary.	Quiz, Assignments . Qs and Answer Sessions.	They understand importance of In-situ conservation and the role of Sanctuaries and Sacred grooves in Biodiversity Conservation.

1.2 In-situ conservation methods: Biosphere Reserves , Sanctuaries National Parks , Sacred Grooves. Advantages and Disadvantages of Insitu Conservation.	3 classes 4 classes	species. To study In-situ Conservation methods, its advantages and disadvantages..	Laptop , Videos	Assignments . Internal Tests.	Students understand the importance of Conservation , analyses of Exsitu Conservation and various conservation methods.
1.3. Ex situ Conservation methods :Botanical gardens. Zoological parks , Gene Banks ,Field gene banks , Seed banks . Invitro Gene banks. Advantages and Disadvantages of Ex-Situ Conservation.		To study Ex situ conservation advantages and disadvantages.	Videos, ppts and Documentary	Assignments . Internal Tests.	
1.4. National Legislations: Policies relent to Biodiversity :Biological Diversity Act 2002; State Biodiversity Boards, Biodiversity Management Committees, Peoples Biodiversity Register : National Biodiversity Action Plan, National	8 classe 8	To study National legislations related to Biological Diversity.	Quiz Ppts, Slide share, Documentary.	Quiz, Assignments . Internal Tests:	Pupils comprehend the importance of National Legislations and Policies. They understand the importance of PBR. Students understand Conservation Practices and understand the role of resourse conservation Agencies IUCN; WWF etc. in conservation of Biodiversity.

Biodiversity Targets. 1.5. Conservation Practices: Brief account on Organizations involved in resource conservation IUCN ,WWF,UNEP,UNESCO,Biodiversity register. 9th July to 18th July 2025	classess 6 classes.	. To study the conservation practices of Biodiversity.	Ppts, Slide share, Documentary	Question Answer Sessions.	

Sumera

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Sadia Yabeen

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Department Of Nutrition

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Teaching Lesson Plan

Subject: HUMAN NUTRITION
Class: Msc 1 Year

Semester: I
Name of the Faculty: Mariya Fatima

Topic/Unit/Chapter	No. of Classes (16-10-2024 to 10-02-2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I: Principles of nutrition	18 Periods 16-10-2024 to 19-11-2024	Learning objectives include: Students were able to Power point presentation Estimate Energy value of foods. Describe the functioning of different calorimeter. List out Nutritional contribution from each food group.	Oral lectures, ppt	Planning diets. Oral test, Informative writing	Students will be able to understand Basic five food groups, Steps involved in meal planning, Importance of balanced Diet, Nutritional requirements of Indian reference man and women.

		Describe steps involved in planning a meal. Plan day's diet for adult man and woman.			
Credit II: Pregnancy, lactation and infancy	18 Periods 20-11-24 to 30-12-24	Learning objectives include: Students were able to understand the Physiological changes during Pregnancy. Maternal weight gain. Complications of pregnancy. Mechanism of milk production. Role of hormones during lactation. Process of development in Infants. Importance of breast feeding	Oral Lectures, pdfs, seminars Flashcards.	Planning menu plans. Oral test. Internal assessment. (Written test)	Students will be able to understand the Nutritional requirements during pregnancy, lactation and infancy. Composition of different types of milk. Importance of Breast feeding. Importance of Homemade weaning foods.
Credit III: Preschoolers School going children and Adolescents, Geriatric.	18 Periods 02-01-25 to 08-02-25	Learning objectives include: Students were able to understand the Milestones and process of growth and development in toddlers. Diet plan for preschoolers.	Oral lectures. Power point presentations	Planning menu plans. Oral test, Written test.	Students will be able to Planning; menu plans. Oral test. Internal assessment. (Written test) Plan the diets for Preschooler. School going children. Adolescents. Importance of nutrition during the growth years of an individual, importance of healthy packed lunch.

		Eating habits of school going children. Nutritional requirements and significance of packed lunch. Role of hormones on growth, development and maturation process in adolescents. Challenges in adolescence. Anorexia. Alcohol and drug abuse. Teenage pregnancy. Physiological changes in aging. Nutritional requirements and dietary modifications in geriatric group. Common diseases and disabilities affecting geriatric group			nfluence of television on eating habits of schoo going children. Students will be able to understand the dietary problems and nutritional requirements in geriatric group. Plan diet plans for geriatric.

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Teaching Lesson Plan

Subject: PRINCIPLES OF DIETETICS
Class: MSC 1 Year

Semester: I
Name of the Faculty: Nazia Mohammadi

Topic/Unit/Chapter	No of Classes (From 16 October 2024 to 10 February 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I: NUTRITIONAL ASSESSMENT, SPECIALIZED FEEDING METHODS AND CRITICAL CARE	18 Periods 16-10-24 to 19-11-24	Learning objectives include: Students will be able to understand the: Methods of Nutritional assessment. Importance of the specialized feeding methods. Enteral feeding methods. The delivery of the food using enteral and parenteral mode of nutrition. The nutritional support required before and after the surgery in a patient. The nutritional support required in burns.	Oral lectures Power point presentations.	Oral test	Students will be able to understand The different feeding methods, diet and how the modifications in the diet will take place and when these are required. the need for the nutrition delivered through Enteral and parenteral mode and also in patients before and after they underwent the surgery andpatients suffering with burns.

Credit II: ENERGY IMBALANCE AND FEBRILE CONDITIONS	18 Periods 20-11-24 to 30-12-24	Students will be able to understand the: The metabolic changes during febrile conditions of short duration, intermittent duration and long duration along with nutritional management required in the condition to overcome and to heal. Interaction between the drugs and nutrients, the effects of drugs on intake absorption, metabolism and excretion of food and also the effect of the food on the drug therapy.	Oral lectures Power point presentations.	Oral test and diet preparation	Students will be able to understand The metabolic changes in fever conditions and dietary management and drug and nutrient interactions.
Credit III: GASTROINTESTINAL DISORDERS	18 Periods 02-01-25 to 08-02-25	Students will be able to understand the: The etiology, symptoms, complication, diagnosis, and nutritional management in malnutrition condition and gastrointestinal disorders.	Oral lectures Power point presentations.	Diet planning Quiz	Students will be able to understand the role of the nutritional support in the malnutrition (obesity and underweight) and in gastrointestinal disorders (Gastritis, Peptic Ulcers, Diarrhea, Constipation, malabsorption syndrome, lactose intolerance, celiac disease and diverticular disease).

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Teaching Lesson Plan

Subject: NUTRITIONAL BIOCHEMISTRY
Class: MSC 1 Year

Semester: I
Name of the Faculty: Mrs. Saba Parveen

Topic/Unit/ Chapter	No. of Classes	Objectives	Teaching aid used	Assessment	Outcomes
UNIT 1 Carbohydrate and their metabolism	18 periods 16-10-24 to 19-11-24	To understand definition, composition, classification, properties, RDA of carbohydrates	Use of lectures, bulletin boards, videos and presentations	Project work was given and oral test was conducted	Students were able to understand classification, functions, metabolism, and inborn errors of carbohydrate metabolism
UNIT 2 Amino acids and their metabolism	18 periods 20-11-24 to 30-12-24	To understand Nutritional significance, classification and dietary sources of amino acids	Working models, charts, pictures	Assignment work was given and question and answer session was conducted	Students were able to understand classification, functions, metabolism of amino acids
UNIT 3 Proteins and their metabolism	18 periods 02-01-25 to 08-02-25	To understand classification, Functions, metabolism of protein deficiencies	Presentation, flash cards, sites	Internal assessment and debate was conducted	Students were able to understand classification, functions of proteins and steps in protein synthesis

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Teaching Lesson Plan

Subject: HUMAN PHYSIOLOGY
Class: MSC 1 Year

Semester: I
Name of the Faculty: Farheen Fatima

Topic/Unit/Chapter	No. of Classes (From 16 October 2024 to 10 February 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I: DIGESTIVE AND EXCRETORY SYSTEM	18 Periods 16-10-24 to 19-1 -24	To make students understand the structure and function Digestive system and Excretory system	Black board and chalk, Diagrams and charts	Project, to prepare charts of diagrams	Students should be able to describe and define Gastrointestinal Tract, gastric secretions, process of digestion. Urine formation, Organic and inorganic constituents of Urine and electrolytic balance
Credit II: BLOOD, CIRCULATORY SYSTEM AND RESPIRATORY SYSTEM.	18 Periods 20-11-24 to 30-12-24	Understand the structure and function of Respiratory system and Structure and function of Heart and Blood Vessels. All components of Blood)	Power point presentation and 3D videos and charts.	Online assessment, oral examination	Students should be able to describe and define the Mechanism of oxygen and carbon dioxide transport, Respiratory abnormalities, describe the pulmonary and portal circulation. Define Heart rate, Blood Pressure etc.., Describe the components of blood and there functions.
Credit III:	18 Periods	To make students understand	Power point	Seminar to	Students

ENDOCRINE SYSTEM	02-01-25 to 08-02-25	the formation and secretions of Hormones, Control of hormones, secretion and mechanism of hormone action.	presentation, oral explanation	be given	should be able to explain the place and function of pituitary gland, thyroid gland, Adrenal gland, Parathyroid glands, Islets of Langerhans and Tested.

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Teaching Lesson Plan

Subject: RESEARCH METHODOLOGY
Class: MSC 1 Year

Semester: II
Name of the Faculty: Saba parveen

Topic/Unit/Chapter	No. of Classes (From 03 March 2025 to 12 August 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I: Methods of research:	18 Periods 03-03-25 to 24-04-25	Learning objectives include: Students will be able to understand the: Definition, characteristics, criteria of good research Merits and demerits, types of research, research strategies in field of food and nutrition: descriptive, analytical, experimental studies. Steps in conducting research, hypothesis, reporting. Research abstract and thesis: definition, parts steps in writing.	Oral lectures Power point presentations	Assignments	Students will be able to understand the definition of research, the characteristic and criteria of a good research. What are the merits and demerits of specific research, They learn the types of research: historical, laboratory experiments, filed survey, case study research etc. Research strategies in field of food and nutrition. The various steps in conducting research, and how to write a research abstract and thesis.

Credit II: Sampling design and types of sampling.	18 Periods 28-04-25 to 03-07-25	Learning objectives include: Students will be able to understand the: Definition, Lipotropic factors. Fatty liver	Oral lectures Power point presentations	Assignments	Students will be able to understand the definition, meaning, aim, characteristics, basis advantages, limitations.
Credit III: Methods of data collection and complication	18 Periods 07-07-25 to 12-08-25	Learning objectives include: Students will be able to understand the: Types of data: primary, secondary its advantages, disadvantages difference between them Methods of collecting primary data. Ranking and rating scale. Criteria for evaluation of instruments. Sources and precaution of secondary data. Classifications and its types	Oral lectures Power point presentations	Assignments	Students will be able to understand: Types of data: primary, secondary, its advantages, disadvantages, difference. The methods of collecting primary data: questionnaire, schedule, observation, inventories checklists, drafting of questionnaires and training of interviewers. Ranking and rating scales and criteria of evaluation of instruments: reliability, validity. The sources and precautions of secondary data. Classification of data and its types.
Credit IV: Statistical methods:	18 Periods	Learning objectives include: Students will be able to understand the: Measures of secondary tendency, mean, median, mode their advantages and disadvantages Methods of dispersion, mean, and standard deviation, coefficient of variation, percentile.	Oral lectures Power point presentations	Assignments	Students will be able to understand: The measures of central tendency, mean, median, mode their advantages and disadvantage. Measures of dispersion, mean and standard deviation, coefficient of variation and percentile, types of correlations, coefficient of correlation and its interpretations, rank correlation, regression equation, and predictions, analysis of variance, contingency tables, Chi-square test, t-test: paired and unpaired, f-test.

		Types or correlation, coefficient of correlation and its interpretations. Analysis of variance, contingency tables, Chi-square test, t-test: paired, unpaired test, f-test.			

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Teaching Lesson Plan

Subject: DIET IN DISEASE **Semester: II**

Class: MSC 1 Year (Nutrition and Dietetics) **Name of the Faculty: Tabasum Unnisa**

Topic/Unit/Chapter	No. of Classes (From 03 March 2025 to 12 August 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I: Diet in hepatic disorders	18 Periods (03-03-2025 to 24-04-2025)	Learning objectives include: Students will be able to understand the: Structure and function of liver Etiology, symptoms, diagnosis, functional test, and dietary management of jaundice and its types Viral hepatitis and its types, fatty liver cirrhosis, alcoholic liver disease, hepatic coma, liver transplantation. Structure and function of Gall bladder and composition of bile. Etiology, symptoms, diagnosis and dietary management of: cholecystitis, cholelithiasis.	Oral lectures, PPT	Assignments	Students will be able to understand the liver structure, function, the path physiology and dietary management of jaundice, viral hepatitis and its types, fatty liver, cirrhosis, alcoholic liver disease, hepatic coma, and liver transplantation. Gall bladder structure and function and composition of bile. Pathophysiology and dietary management of cholecystitis and cholelithiasis.

Credit II: IMBALANCE AND FEBRILE CONDITIONS.	18 Periods (28-04-2025 to 03-07-2025)	Learning understand the: The metabolic changes during febrile conditions of short duration, intermittent duration and long duration along with nutritional management required in the condition to overcome and to heal. Interaction between the drugs and nutrients, the effects of drugs on intake absorption, metabolism and excretion of food and also the effect of the food on the drug therapy.	Oral lectures, PPT	Assignments	Students will be : The metabolic changes in fever conditions and dietary management and drug and nutrient interactions.
Credit III: GASTROINTESTINAL DISORDERS	18 Periods (07-07-2025 to 12-08-2025)	Students will be able to understand the: The etiology, symptoms, complication, diagnosis, and nutritional management in malnutrition condition and gastrointestinal disorders.	Oral lectures Power point presentations	Diet planning. Quiz.	Students will be able to understand the: role of the nutritional support in the malnutrition (obesity and underweight) and in gastrointestinal disorders (Gastritis, Peptic Ulcers, Diarrhea, Constipation, malabsorption syndrome, lactose intolerance, celiac disease and diverticular disease

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Teaching Lesson Plan

Subject: PRINCIPLES OF FOODS
Class: MSC 1 Year

Semester: II
Name of the Faculty: Farheen Fatima

Topic/Unit/ Chapter	No. of Classes (From 3 March to 12 August 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit:I Cereals and pulses	18 Periods 03-03-25 to 24-04-25	To provide an understanding of composition of cereals and pulses along with their processing techniques	Oral lectures, Use of AV aids	Assignment Project work was given and oral test was conducted	Students who were able to understand different cooking and processing techniques
Credit:II Sugar nuts and oilseeds and animal foods	18 Periods 28-04-25 to 03-07-25	To understand their types, composition and nutritive value and spoilage	Oral lectures, use of projector, PPT	Assignment work was given and seminars	Students who were able to understand composition and nutritive value and characteristics of fresh foods
Credit:III Food additives	18 Periods 07-07-25 to 12-08-25	To understand different preservative techniques and differentiate between natural and synthetic foods	Oral lectures, use of models, charts, flash cards and useful sites	Conducted internal assessment and Debate	Students who were able to understand the use of food additives. The chemical and natural substances present in the food.

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Teaching Lesson Plan

Subject: NUTRITIONAL BIOCHEMISTRY-II
Class: MSC 1 Year

Semester: II
Name of the Faculty: Farhath unnisa

Topic/Unit/Chapter	No. of Classes (From 03 March 2025 to 12 August 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I: Lipids and their metabolism.	18 Periods 03-03-25 to 24-04-25	Learning objectives include: Students will be able to understand the: Classification, sources, functions metabolism of lipids Importance of essential fatty acids lipoproteins, triglycerides and cholestero . Oxidation and synthesis of fatty acics. Metabolism of cholesterol. Lipotropic factors. Fatty liver.	Oral lectures Power point presentations	Assignments	Students will be able to understand how the fats are classifies what are the functions they play in the human body They learn how the fats are metabolized and stored in the body. They gain an insight about the role of essential fatty acids, lipoproteins triglycerides and cholesterol. They learn how fatty acids are oxidized and synthesized. They understand what lipotropic factors are and what role do they play and learn about fatty liver.

Credit II: Vitamins	18 Periods 28-04-25 to 03-07-25	Learning objectives include: Students will be able to understand the: Imbalances that happen with disturbance in lipid metabolism. Learn in detail about obesity, cachexia and inborn errors associated with lipid metabolism. Interrelationship between carbohydrates, fat and protein metabolism Physiological action, transport, utilization, storage, sources, functions and deficiency of fat soluble vitamins. Lipotropic factors. Fatty liver.	Oral lectures Power point presentations	Assignments	Students will be able to understand the difference between obesity and cachexia how improper management in fats supplementation leads to obesity and also the inborn errors associated with it. The interrelationship between carbohydrates, lipids and protein metabolism. They learn about the fat soluble vitamins in detail.
Credit III: Minerals	18 Periods 07-07-25 to 12-08-25	Learning objectives include: Students will be able to understand the: What is the role and function of water its requirements, how it's distributed. Disturbance in the fluid balance-dehydration and oedema and role of solutes in maintaining the fluid compartments. Physiological action, transport	Oral lectures Power point presentations.	Assignments	Students will be able to understand what is the role of water, its functions, requirements, and the disturbances in fluid balance and the role of solutes in maintaining it. They learn about the water soluble vitamins in detail.

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Teaching Lesson Plan

Subject: FOOD PRODUCT DEVELOPMENT AND PACKAGING **Semester: III**

Class: MSC II Year **Name of the Faculty: Nazia Mohammadi**

Topic/Unit/Chapter	No. of Classes (23 September 2024 to 25 January 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit-I Food product development and entrepreneurship	13 periods 23-09-24 to 30-10-24	To familiarize students with the basic concepts in food product development and to develop entrepreneurship	Oral lectures, use of brochures	Project work was given	Students were able to understand basic steps in new product development and about IPR
Credit-II Evaluation of food quality	13 periods 04-11-24 to 04-12-24	To provide in depth knowledge on sensory evaluation of food products	Oral lectures, different recipes prepared and displayed	Assignment	Students were able to understand Different test to assess sensory properties and specific attributes of foods
Credit-III Food product labeling and Food packaging	13 periods 09-12-24 to 23-01-25	To familiarize students with the different food packaging materials and packaging laws	Oral lectures, Live samples were displayed and used slides	Internal assessment	Students were able to understand Characteristics of effective labelling and importance of food packaging.

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Teaching Lesson Plan

Subject: Community Nutrition **Semester: III**

Class: MSC II Year **Name of the Faculty: Mariya Fatima**

Topic/Unit/Chapter	No. of Classes (From 23 September 2024 to 25 January 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I : ASSESSMENT OF NUTRITIONAL STATUS.	18 Periods 23-09-24 to 30-10-24	LEARNING OBJECTIVES INCLUDES; Students were able to understand the uses and limitations of BMI. WHO standards for anthropometric measurements. Types of diet surveys. Uses and limitations of diet surveys. Uses and limitations of biochemical methods. Uses and limitations of clinical assessment Definition, classification and types of Biomarkers.	Continual assessments, lectures, oral exams and laboratory classes involving clinical assessment	Oral and written tests	Students were able to understand the uses and limitations of BMI. WHO standards for anthropometric measurements. Types of diet surveys. Uses and limitations of diet surveys. Uses and limitations of biochemical methods. Uses and limitations of clinical assessment. Definition, classification and types of Biomarkers.
Credit II : Nutrition Education	18 Periods 04-11-24 to 04-	LEARNING OBJECTIVES INCLUDES; By the end of this	Computer model for primary health	An essay and a project	By the end of this session students were able to recognize the importance of Nutrition and Health education.

a id Nutrition Problems and Agencies combating Malnutrition.	12-24	session students were able to recognize the importance of Nutrition and Health education. Types of Audio visual aids. Advantages and disadvantages of AV aids. Get familiar with tools and techniques of health education. Understand advantages, disadvantages and different types of approaches. Students will get knowledge about the health care administration at Central level, state level, village level and learn about primary health care.	care. Audio aids.		Types of Audio visual aids. Advantages and disadvantages of AV aids. Get familiar with tools and techniques of health education. Understand advantages, disadvantages and different types of approaches. Students will get knowledge about the health care administration at Central level, state level, village level and learn about primary health care.
Credit III : Occupational Hazards and Nutrition in Emergencies and Disasters	18 Periods 09-12-24 to 23-01-25	LEARNINGOBJECTIVESINCLUDES; Students were able to understand The causes/determinants and consequences of Nutritional problems in India. Magnitude of malnutrition in India. Consequences of malnutrition in India. Measures to combat malnutrition in India through different programs Vitamin A prophylaxis program. Anemia prophylaxis program. Role of national and international organizations in combating malnutrition.	Books, models and 3D videos of Iodine deficiency	Conducted assessments in written form	Students were able to understand The causes/ determinants and consequences of Nutritional problems in India. Magnitude of malnutrition in India. Consequences of malnutrition in India. Measures to combat malnutrition in India through different programs Vitamin A prophylaxis program. Anemia prophylaxis program. Role of national and international organizations in combating malnutrition

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Teaching Lesson Plan

Subject: MATERNAL AND CHILD NUTRITION **Semester: III**

Class: MSC II Year **Name of the Faculty: Mrs. Saba Parveen**

Topic/ Unit/ Chapter	No. of Classes	Objectives	Teaching aid used	Assessment	Outcomes
UNIT 1 Effect of Maternal Nutrition on foetus and Pregnancy outcome	18 periods 23-09-24 to 30-10-24	To enable the students to understand the effect of maternal nutrition on foetus, pregnancy outcomes and its complications	Lectures, slides, ppts.	Project work was given and oral test was conducted.	Students were able to understand prenatal environment and nutritional requirement during first 1000 days
UNIT 2 Impact of over and under Nutrition on the diseases, disorders and overall health of the child	18 periods 04-11-24 to 04-12-24	To get acquainted with the impact of over and under Nutrition on the diseases, disorders and on overal health of children	Lectures, use of brochures.	Assignment work was given and question and answer session was conducted.	Students were able to understand obesity and under nutrition in child

UNIT 3 Dietary management during Renal abnormalities, Carbohydrate imbalance and other special conditions	18 periods 09-12-24 to 23-01-25	To get an insight knowledge on inborn errors of metabolism and nutrition in special condition of a child	Lectures, use of flash cards.	Internal assessment was conducted.	Students were able to understand about dietary management in disease and special conditions.

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Teaching Lesson Plan

Subject: FOOD SERVICE MANAGEMENT **Semester: III**

Class: M.SC II Year **Name of the Faculty: Farheen Fatima**

Topic/Unit/Chapter	No. of Classes (From 23 September 2024 to 25 January 2025)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I : Management of Food Service Establishments	18 Periods 23-09-24 to 30-10-24	To make students capable of describing the Tools, principles and functions of Management.	Lectures, oral exams, Field trip to Management college.	Oral and written tests. Report writing on the field trip.	On completion of this unit, students will be able to define principles, Tools and Functions of management.
Credit II : Organisation of Spaces and equipment in Food Service Establishments	18 Periods 04-11-24 to 04-12-24	Students should be able to describe and explain the kitchen spaces, storage spaces and service areas. Define and differentiate between equipments.	PPT presentation, 3D videos for planning spaces	Project work given	Students are able to describe all the kitchen spaces, storage spaces, service areas and equipments Plan and design spaces according to work flow, requirements and budgets.
Credit III : Recipe Construction, menu planning and	18 Periods 09-12-24 to 23-01-25	Students should be able to classify Various food on the basis of storage, service goals	Oral lecture, Power point presentation, pdf from	Conducted online assessment Project work	Student should be able to apply knowledge on Food Management on the basis of storage and need of the establishment. Students are

Financial Management		and management of Food purchase and storage. Make students understand standardization processes, HACCP principles. Patent regulations in India and calculation for Food Cost.	various online books.	given.	able to describe standardization processes, principles of HACCP and patents laws in India. Calculate food cost with the profit margin and standardizing.

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Teaching Lessor Plan

Subject: ADVANCED NUTRITION
Class: MSC II Year

Semester: IV
Name of the Faculty: Farheen Fatima

Topic/Unit/Chapter	No. of Classes (From 17 February 2025 to 12 July 2024)	Objectives	Teaching Aid Used	Assessment	Outcomes
Credit I: Emerging Food Trends.	18 Periods 17-02-25 to 31-03-25	Learning objectives include: Students were able to Identify different Designers foods and Genetically modified foods. Understand the process of fortification. Process of irradiation and its application in armed forces. Organic foods Advantages and disadvantages of extruded foods.	Oral lectures. Power point presentations	written assignment	Students will be able to Define Designer foods, Novel Protein, Irradiation of Foods
Credit II: NUTRACEUTICALS	18 Periods 01-04-25 to 17-06-25	Learning objectives include: Students were able to Recognize The use of animal and human metabolic studies for the	Oral lectures.	Power point presentations	Students will be able to understand the ethics in conducting Human and Animal metabolic studies.

		assessment of nutrient bioavailability. Ethics in conducting these studies. Methods for determining bioavailability of vitamins and minerals. Factors affecting bioavailability of iron and calcium			
Credit III: Nutrigenomics Metabolic Studies, Bioavailability of nutrients.	18 Periods 16-06-25 to 18-07-25	Learning objectives include: Students were able to Define Active Immunity Passive Immunity Immunoglobulins. Malnutrition and Immune function.	Oral lectures and PPT	Written assessment	Students will be able to differentiate active Immunity and Passive Immunity and its types. Role of Nutrients on immune function.

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Teaching Lesson Plan

Subject: Food Microbiology and Food Safety
Class: MSC II Year

Semester: IV
Name of the Faculty: Mrs. Saba Parveen

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching aid used	Assessment	Outcomes
UNIT 1 Introduction to Microbiology	18 periods 17-02-25 to 31-03-25	To learn about the basics of Food microbiology, structure, growth and multiplication of Micro organisms	Lectures, use of ppts, poster presentation	Project work was given, oral test was conducted	Students were able to understand basics of microbiology and general morphology
UNIT 2 Microbial Food spoilage and Food safety	18 periods 01-04-25 to 17-06-25	To understand the importance of food safety and quality management in food spoilage	Lectures, use of projectors, flash cards	Assignment work was given and debate was conducted	Students were able to understand spoilage and prevention of different food groups
UNIT 3 Food laws and Regulations	18 periods 16-06-25 to 18-07-25	To understand the current food safety standards, rules and regulations.	Lectures, use of videos sites	Internal assessment was conducted, question and answer session conducted.	Students were able to understand about National and International food standards

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Teaching Lesson Plan

Subject: DIET COUNSELLING AND PSYCHOLOGY SKILLS **Semester: IV**

Class: MSC II YEAR

Name of the Faculty: Mrs. TABASUM UNNISA

Topic/Unit/Chapter	No. of Classes	Objectives	Teaching aid used	Assessment	Outcomes
Credit I: Basics of Diet Counselling	18 periods (17-2-2025 to 31-3-2025)	To introduce the concept of diet counselling and its role in promoting health and preventing nutrition related disorders among students. To educate students about balanced diets, macro	Ppt, posters and charts, food models and flash cards.	Group discussions, role play, MCQs	Students will be able to understand core concepts and explain the principles, goals and scope of diet counselling. Describe the role of diet counselling in preventive and therapeutic nutrition. Assess nutritional needs. Identify and assess dietary patterns and nutritional status of individual using standard tools.

		and micro nutrients and their daily nutritional requirements. To identify and assess common unhealthy eating habits and lifestyle patterns among students.			
Credit II: Diet counselling at hospital and community levels	18 periods	To understand the principles and goals of diet counselling. To differentiate between diet counselling at hospital vs community settings. To learn techniques for effective communicatio	Ppts, charts, videos, demonstrations	Assignments, viva exams	Students will able to: Distinguish the responsibilities of a diet counsellor in hospitals and community settings. Demonstrate effective communication and counselling techniques. Assess nutritional needs based on clinic or public health data. Design and deliver diet plans tailored to individual and community needs. Show cultural and ethical sensitivity in counselling practise. Maintain proper documentation and follow up care in dietetic services. Apply learned skills during internships or professional diet counselling sessions.

		n during counsellir g. To identify dietary needs based on clinical or community health status. To develop sk lls in planning and implementing personalised dietary advice. To understar d cultural, economic and psychological factors influencin g dietary behaviour. To [practise documentatio n and follow up procedures in diet counsellir g.			

Credit III: Introduction to psychology and counselling	18 periods (16-6-2025 to 18-7-2025	To define psychology and explain its scope and relevance. To understand the basic concepts and branch of psychology. To explore the meaning goals and importance of counselling. To introduce basic counselling techniques and ethical considerations.	Charts, flow diagrams, videos	Short quiz and presentation	Students will be able to: Define psychology and identify its major branches. Explain the concepts and applications of counselling and various settings. Describe the essential qualities and ethical responsibilities. Demonstrate basic communication and counselling skills through role play.

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Teaching Lesson Plan

Class: I year **Semester: I**

Paper: I (Cell biology &Genetics) **Name of the Faculty: Owais Ul Haq**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aind Used	Assessment	Outcomes
Unit I: Internal Organization of Cell & Principles of Inheritance	• Chromosome- morphology, classification, karyotyping; Chromosome theory of inheritance;Featuresofcentromereandtelomere;Specializedchromosomes-polytene& lamp brush chromosomes; Variation in chromosome number-euploidy, aneuploidy;Variationinchromosomestructure-deletions,duplication,translocations andinversions • Law of segregation & Law of independent assortment- test cross and back cross; Extension to Mendel's Laws- Incomplete dominance (e.g. Flower Color), Co- dominance (e.g. MN Blood groups); Non allelic interactions- Types of Epistasis, modification of dihybrid ratios; Multiple Allelism (e.g. Coat color in Rabbits, eye color in Drosophila, ABO Blood groups, Rh blood groups)-incompatibility and pseudoallelism,Complexloci-R-locusinmaize • Penetrance and Expressivity (e.g. Polydactyly, Waardenburg Syndrome), Pleiotropism (e.g.	15	To comprehend the biochemical and molecular processes of cell division and cell death.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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	BardetBiedel Syndrome, Marfan syndrome), Phenocopy (e.g. Microcephaly) • Sex determination in Drosophila, Birds, Man and Bonellia; X-linked inheritance- Hemophilia, Color blindness, Lyonization; Y-linked inheritance-Holandric genes; Sex limited and sex influenced characters; Inheritance patterns in Man-Pedigree analysis • Polygenicinheritance,Additiveeffect-Skincolorinman,Kernelcolorinmaize • Non- Mendelian inheritance-Maternal inheritance-Variegation in leaves of higher plants-Mirabilisjalapa,PokyinNeurospora,Maternaleffect-Shellcoilinginsnails, Uniparental inheritance-mutations in extra nuclear genes in Chlamydomonas, Male sterilityinMaize,S-geneinNicotiana					
Unit II: Chromatin organization, Linkage and gene mapping	• Chromatin organization- Nucleosome, loops and scaffolds; Nucleosomephasing • Chromatinundertranscription-euchromatinandheterochromatin • Cytologicalproofofcrossingover-CreightonandMcClintock'sexperiment, correlationbetweenchiasmataandcrossingover • Phasesoflinkage,testcross,recombinationfrequency, genemapping,determination ofmapdistancesbasedontwoandthreepointtestcrosses ,coincidence,interference • e.g. Drosophila, Maize • Tetradanalysis-Neurospora;Mitoticcrossingover-Aspergillus,Drosophila • Genemapping-Geneticmapping,sibpairs,LODscores,homozygosity mapping, LinkagedisequilibriumandTransmissiondisequilibri	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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Unit III: Cell Division and Cell Death	• Cell cycle:Phases • Checkpointsincellcycle,Cyclins,CDKs • Mechanicsofcelldivision-anoverviewofM-Phase,differentstagesofmitosis (cohesins and condensins in chromosome segregation; microtubules in spindle assembly,structureofkinetochore,centrosomeanditsfunctions,sisterchromatid separation;cytokinesis,actin&myosininthegenerationofcontractilering)and significance • Meiosis–stages(chiasmaformation-synaptonemalcomplex;recombinationduring meiosis-recombinationnodules)andsignificance • Senescence,Necrosis–classification,morphologicalpatternsofnecrosis,causesof necrosis • Apoptosis-programmedcelldeath;mechanismsofapoptosis;apoptosistriggeredby internal signals; apoptosis triggered by external signals; apoptosis inducing factor; apoptosisincancer,programmedcelldeathinplants	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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M.Sc. Biotechnology (2024 – 2025)
Teaching Lesson Plan

Class: I year **Semester: I**

Paper: II (Biological chemistry) **Name of the Faculty: Dr. Shazia Ahmad**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Carbohydrates, metabolism & Biomolecules, Bioenergetics and Enzymology	• Carbohydrates (Classification-monosaccharides, disaccharides, oligosaccharides & polysaccharides) • Lipids(Classification-fattyacids,steroids) • Aminoacids,Proteins(Primary,secondary&tertiarystructures) • Nucleicacids(Purines&pyrimidines) • Lawsofthermodynamics,Gibbsfreeenergy,Enthalpy,Entropy,Catalysis • Enzymes and enzyme kinetics, Briggs-Haldane reaction, Michaelis-Mentenequation Coenzymes,Cofactors,enzymeregulation • Glycolysis, TCA cycle and Electron transport chain • Gluconeogenesis, Glycogenesis and Glycogenolysis • Glucuronic acid cycle • Pentose phosphate pathway • Entner-Doudoroff pathway, Cori cycle	15	To learn the cellular signally prossess.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	Understanding of how cells communicate and carry out Physiological processes. Understanding the basics about bimolecular ,Bioenergetics and enzymology
Unit II:	• Hydrolysis of triacylglycerols	15	To	Lecture +	Assignments	

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Metabolism of lipids and amino acids	• β-oxidation, Fatty acid biosynthesis, Cholesterol metabolism • Biosynthesis of amino acids, Amino acid degradation, Urea cycle • Prostaglandin biosynthesis • Nitrogen metabolism: Nitrate and ammonium assimilation • Biosynthesis and degradation of purines and pyrimidines		comprehend metabolism of Lipids,Nuclie c acids and Amino acids.	power point presentation + interaction + question answer sessions Blackboard	Slip tests, internal exam, Revision, question and answer	
Unit III: Cell Signalling	• Cell communication (autocrine and paracrine) • Second messengers and their role in signal transduction– cAMP, cGMP, phosphatidyl inositol derived second messengers, calcium as second messenger, Cell surface receptors in signal transduction • G-protein coupled receptor– structure and function; GPCR signalling pathways; Ion channel receptors • Tyrosine kinase linked receptors (receptors for cytokines), JAK-STAT pathway • Receptors with intrinsic enzyme activity (RTK) and RTK signaling pathways • Wnt signalling pathway; Toll-like receptor signalling pathway	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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Teaching Lesson Plan

Class: I year **Semester: I**

Paper: III (Microbiology) **Name of the Faculty: Mahjabeen Tarranum**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: General characteristics of microorganisms	• Microbiology- historical perspective • Microscopy and Applications- Principles and working of bright field, Fluorescent, Phase contrast and Electron microscopes • Classification of microorganisms • Concept and methods of sterilization and their application in industry- dry heat, moist heat, radiation methods, filtration methods, chemical methods • Concept of containment facility, sterilization at industrial level • Types of antimicrobial agents and development of resistance by microorganisms to various chemicals • General characteristics of bacteria • Identification methods for bacteria- conventional • (simple staining methods, differential staining, structural staining and special staining method),	15	To learn about general characteristics of Bacteria: Bacterial isolation ,growth.culturing and preservation,. isolation.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	To culture different bacteria and know how to preserve them. Understanding the basics of Microbiology and Microbial classification.

	molecular based approaches • General methods for isolation of bacteria- plating methods (streak, spread and pour plate methods); serial dilution, • Bacterial growth- typical growth curve- batch and continuous cultures, synchronous cultures; Measurement of bacterial growth- measurement of cell number and cell mass; factors influencing bacterial growth- temperature, pH, water activity, oxygen concentration,saltconcentration,pressureand radiation • Methods of anaerobic culturing of bacteria- Brewer jar, gas pak, pyrogallic acid technique, roll tube and glove box techniques; pure cultures- concept of pure culture, methods of pure culture, Enrichment culturing techniques, single cell isolation and pure culture development. • Methods of preservation of microbial cultures– repeated subculturing, preservation at low temperature, sterile soil preservation, mineral oil preservation, deep freezing and liquid nitrogen preservation, freeze-drying (lyophilization). Diseases caused by bacteria in humans (Staphylococcus, Streptococcus, Mycobacterium tuberculosis					
Unit II: Viruses and their characteristics	• General characteristics of viruses • Classification of viruses and important characters of each group • Structure and replication of Bacteriophage (T2), Lambda phage- Lytic and Lysogenic cycles • Isolation and Purification of viruses by Filtration, Precipitation and Centrifugation • Methods of cultivation of viruses- in animal cell inoculation, Chick embryo, tissue culture; • Structure and general characteristics of important viruses (TMV, HIV, Hepaptitis virus, Rota virus,	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

	Adenovirus, Polio virus, Prions) and Importance of viruses in biotechnology					
Unit III: Algae, fungi & protozoa and their characteristics	• General characteristics, vegetative & reproductive structure of Algae (Cyanophyta, Cholorophyta, Bacillariophyta, Phacophyta, Rhodophyta) • Economic importance of algae • General characteristics of Fungi (Phycomycetes, Bacidiomycetes, Zygomycetes, Oomycetes, Ascomycetes, Deuteromycetes) • Fungi as pathogens of humans, plants and animals • General characteristics of Protozoa • Protozoan as pathogens of humans (Giardia, Entamoeba, Plasmodium)	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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Teaching Lesson Plan

Class: I year **Semester: I**

Paper: IV (SLM & S E) **Name of the Faculty: Mrs. Nadeem Fatima**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Descriptive Statistics & Probability Distribution & Statistical Inferences of Qualitative & Quantitative Variables	• Sampling- Sampling procedure, homogenization of samples, samples size, Selection of Random sample, Limitation of analytical methods, classification of errors, measurement of averages and variation, minimization of errors. • Types of data, Frequency distribution, Measure of central values- Mean, median and mode, Measures of dispersion- range , mean deviation , standard deviation, coefficient of variation, moment, Skewness and kurtosis; Graphical representation of Data, Histogram, Frequency polygon, Pie Chart • Probability, Concept of Probability Theory, Events, Trials, Mutually exclusive events, Favourable events, exhaustive events, Bayesian theorem of Probability, Addition theorem, Multiplication	15	To understand the concept of applying appropriate test statistics	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	Good Laboratory Practices How to be a successful entrepreneur Learn to estimate appropriate descriptive measures for a date in a given study design.

	theorem • Binomial distribution, Normal distribution, Poisson distribution & their applications. • Discriminating power, Derivation, Evaluation of evidence by discriminating powers • Combination of independent systems, Correlated attributes, transfer of evidence, Likelihoodratio • Concept of Test of hypothesis, Null & Alternative hypothesis, level of significance, Chi square test & its applications • Large Sample Tests- Z-test of Means & Proportions • Small sample test - T-test for Means, Paired T-test • Analysis of Variance and Co-variance, One-Way ANOVA, Two-way ANOVA • Simple regression and correlation • Test of regression coefficient and correlation Coefficient					
Unit II: Laboratory Management & Safety	• Administration of Laboratories, Laboratory design, Security measures, laboratory bio security concepts, Laboratory Information management system (LIMS) • Laboratory safety- good laboratory practice (GLP), Biosafety levels, Safety policies • Basic principles of quality control (QC) and quality assurance (QA) • Handling of Hazardous compounds- chemicals, solvents, poisons, isotopes, explosives and biological strains (Bacterial, Fungal etc.) • Storage of hazardous material • Disposal of biological and radioisotope wastes	15	To learn laboratory management and safety.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

Unit III: Entrepreneurship	• Concept, definition, structure and theories of entrepreneurship • Types of start-ups • Types of entrepreneurship, environment, process of entrepreneurial development • Entrepreneurial culture, entrepreneurial leadership • Product planning and development -Project management, Search for business idea, Concept of projects, Project identification, Formulation, Design and network analysis, Project report and project appraisal • Promoting bio-entrepreneurship	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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Teaching Lesson Plan

Class: I year **Semester: II**

Paper: I (Molecular Biology – The Genome) **Name of the Faculty: Mr. Owais Ul Haq**

Topic/Unit/Chapter		No. of Classes (From --- to--)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Genome Organization & Genome Replication	• Historical perspective: DNA as a genetic material, structure of DNA, Genome size, C-value paradox • Organization of prokaryotic genome and eukaryotic nuclear genome (Chromosome number, Gene size, Gene density) • Unique sequences, repeated sequences– interspersed and tandem repeats; satellite DNA, mini satellites and microsatellites • Gene families (Clustered and Dispersive– Haemoglobin gene and Histone gene clusters) • Pseudogenes– processed and unprocessed • Organization of Mitochondrial and Chloroplast genomes • DNA Replication- enzymes involved in the replication of DNA, origin of replication fork • DNA Replication- enzymes involved in the replication of DNA, origin of replication fork • Replication of Prokaryotic genome and plasmid DNA	15	It is the study of cell, their structure, function, growth and chemical process. It helps in depicting genomic organization	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	The subject gives in depth; knowledge of biological process through the investigation of molecular mechanism.

	• Replication of nuclear genome of eukaryotes, mitochondrial and chloroplast • Regulation of genome replication (Prokaryotes and Eukaryotes) • Replication associated errors • Inhibitors of DNA replication					
Unit II: DNA Damage and Repair	• Spontaneous and Induced mutations– physical and chemical mutagens • DNA damages (oxidative damages, depurinations, depyrimidinations, • O6-methylguanines, cytosine deamination, single and double strand breaks) • Types of mutagenesis– transition, transversion, frame shifts, missense and non-sense mutations • Repair mechanisms– Photo-reactivation, Excision repair (base excision repair, nucleotide excision repair), mismatch repair, SOS repair • Double strand DNA breaks and their repair via Homologous recombination • Post replication repair	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	
Unit III: Genome Rearrangements and Recombination	• Whole genome duplication • Segmental Duplication- insertion, deletion and translocation of sequences • Single nucleotide variations • Homologous recombination– rec pathways • Non-Homologous End Joining and site specific recombination • Transposons and repeat mediated rearrangements and Gene conversion	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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Teaching Lesson Plan

Class: I year **Semester: II**

Paper: II (Molecular Biology – Genes to Protein) **Name of the Faculty: Mrs. Nadeem Fatima**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Prokaryotic and Eukaryotic genes & Transcription and RNA processing	• Organization of prokaryotic genes- operons (promoters & repressors) • Fine structure of eukaryotic gene (introns, exons, UTRs, core and proximal promoters & enhancers) • Number of genes in prokaryotes and eukaryotes • Essential genes– Proportion and distribution in the genome • Functional RNA genes (rRNA, tRNA, snoRNA, snRNA) • Regulatory small RNA coding genes (miRNAs) • Transcription in prokaryotes, Structure of RNA polymerase and promoter, Transcription initiation • role of sigma, alpha sub units, abortive initiation, Elongation- core polymerase, role of β, β' subunits, proof reading, Termination-Rho independent and Rhodependent. • Transcription in eukaryotes, types of RNA polymerases (I, II, III) and promoters, transcription factors for I, II, III RNA polymerases, transcription	15	It helps in determining the function of genes and elements that regulate genes throughout the genome.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	The subject helps to form a research career in Molecular Biology or related areas

	activators, specific factors (zinc fingers, HAL4, homeodomain, leucine zipper proteins, helix-turn-helix and helix-loop-helix proteins) • Mechanism of transcription in eukaryotes, initiation, elongation and termination; synthesis of rRNA, mRNA, tRNA and inhibitors of transcription. • Post transcriptional modifications, capping and polyadenylation • RNA editing and processing, Splicing mechanism-alternate splicing, trans splicing, self splicing, Spliceosome mediated splicing, rRNA and tRNA splicing mechanisms • Gene regulation exerted at the level of translation– silk fibroin gene, regulation at splice site selection – Drosophila sex determination					
Unit II: Translation and Post translational modifications	• Properties of genetic code (universal code, degeneracy, redundancy) • Correspondence of amino acid sequence with nucleotide sequence in DNA (Single letter code for amino acids) • Translation machinery in prokaryotes, initiation (IF-1, IF-2,IF-3) (t-RNA charging, disassociation & assembly of ribosomal subunits), elongation (EF-Tu, EF-Ts, EF-G) (translocation, t-RNA identity, aminoacyl t-RNA, • peptide bond formation), termination (RF-1, RF-2, RF-3) (termination • codons) • Translation mechanism in eukaryotes, initiation (factors, assembly of ribosomes), elongation, termination (termination codons, stop codon suppression) • Translational activators and inhibitors • Post translational modifications of proteins: glycosylation, lipidation, acetylation, ubiqutination,	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

	protein splicing, chaperones, modification of amino acids, disulfide bond formation, peptide bond cleavage and isomerization					
Unit III: Regulation of Gene expression and Epigenetics	• Control of gene expression at transcription and translation level, co-ordinated regulation of gene expression in prokaryotes, regulation of lactose operon and tryptophan operon • Regulation of gene expression in eukaryotes- genes controlling yeast mating type, regulation of Xenopus 5S rRNA in oocytes, using a strategically placed enhancer as genetic switch– chicken globin genes • Gene regulation in eukaryotes (antisense RNA & RNAi) • Role of chromatin in regulating gene expression and gene silencing, DNA methylation, histone modifications (acetylation, deacetylation, analysis of epigenetic modifications, epigenetic memory) • Genome wide mapping of chromatin factors and modifications • Role of nutrition and environment in epigenetic modifications	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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M.Sc. Biotechnology (2024 – 2025)

Teaching Lesson Plan

Class: I year **Semester: II**

Paper: III (Immunology) **Name of the Faculty: Dr. Shazia Ahmad**

Topic/Unit/Chapter		No. of Classes (From ---to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Basics principles of Immunology	• Immunity– Types of Immunity, Innate immunity- Anatomic barriers, physiological barriers, phagocytic barriers, microbial antagonism, inflammation; Acquired Immunity– characteristics • Cells of the Immune System– lymphoid cells (B & T-Lymphocytes; T- cell sub-sets; NK cells), Mononuclear phagocytes (monocytes, macrophages), Granulocytes (neutrophils, eosinophils, basophils, mast cells, dendritic cells); haematopoiesis and differentiation • Organs of the immune system : primary lymphoid organs (Bone marrow and Thymus); secondary lymphoid organs (lymph nodes, spleen, mucosal-associated lymphoid tissue and cutaneous asscociated lymphoid tissue) • Antigens- Immunogenicity versus Antigenicity, Factors that influence immunogenicity, Epitopes- Properties of B-cell epitopes and T- cell epitopes, Haptens • Complement system– functions and components of complement	15	It helps in studying important factors related with the treatment of many diseases. Development of auto antibodies against self	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	Students can learn about the latest research and development being carried out in Biotechnology and related areas.

	system; complement activation; regulation of complement system • Deficiencies of innate immune mechanisms– Chronic Granulomatous Disease (CGD), Leukocyte-adhesion deficiency		antigens of various diseases			
Unit II: B-cell development and Immunoglobulins: Structure and Functions	• Basic structure of Immunoglobulins- The role of multiple myeloma in understanding Ig structure; Fine structure of Immunoglobulins - Immunoglobulin domains-variable region and constant region domains; isotypes, allotypes, idiotypes • Immunoglobulin classes- IgG, IgM, IgA, IgD and IgE; functions of Ig classes; effector functions of antibodies, Organization and expression of immunoglobulin light and heavy chain genes • B-cell activation and proliferation by Thymus Independent and Thymus Dependent antigens; invivo sites for induction of humoral response; B-cell differentiation, class- switching and generation of plasma cells and memory cells • Antigen antibody interactions and applications (immunodiffusion tests, ELISA- Sandwich, Indirect, Dot; Western Blot, Flow cytometry, immunoprecipitation, immunoelectrophoresis, immunoflourescence, immunoelectron microscopy) • Polyclonal antibodies; Monoclonal Antibodies- Production of Monoclonal Antibodies- Formation and selection of hybrid cells; Antibody • engineering– human antibodies from phage display; antibodies in immunotherapy- Targeting of therapeutic immunomolecules • B-cell immunodeficiency disorders– X-linked agammaglobulinemia, selective immunoglobulin deficiency	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	
Unit III: Major Histocompatibility Compl	• General organization and inheritance of MHC; MHC Haplotypes • The structure of MHC class I and class II molecules; organization of MHC class I and class II genes, peptide binding of MHC molecules • Polymorphism of MHC class I and class II molecules; cellular distribution of MHC molecules; MHC molecules and immune responsiveness and disease susceptibility	15		Lecture + power point presentation + interaction + question answer	Assignments Slip tests, internal exam, Revision, question	

ex (MHC) and tumor immunology & Cell-mediated Immune Responses	• Types of grafts; Mechanism of graft rejection; immunological basis of graft rejection; Graft versus host reactions • Human leukocyte antigen (HLA) typing by mixed lymphocyte reaction (MLR), microcytotoxicity tests and by PCR; Role of HLA typing in organ transplantation • Tumors of the immune system– Tumor antigens, Immune response to tumors, tumor escape mechanisms; Cancer immunotherapy approaches • Antigen processing by antigen presenting cells; the structure and functions of T-cell receptors (TCR); the TCR-peptide-MHC tri-molecular complexes • Cytokines– properties; cytokine receptors; Th1 and Th2 type of cytokines; Therapeutic uses of cytokines • Cell-mediated immune response: General properties of effector T-cells; • Direct cytotoxic response; experimental assessment of cell-mediated cytotoxicity; • Hypersensitivity– types; Delayed Type of Hypersensitivity (DTH) and cytokines involved in DTH • Auto-immunity- mechanisms and auto-immune diseases-Insulin Dependent Diabetes; Rheumatoid Arthritis, Auto-immune Thyroid disease, Systemic lupus erythematosus (SLE) • T cell primary immunodeficiency disorders– Severe combined immunodeficiency (SCID), Di George syndrome; Secondary immunodeficiency disorders- acquired immune deficiency syndrome (AIDS)			sessions Blackboard	and answer	

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Teaching Lesson Plan

Class: I year **Semester: II**

Paper: IV (Microbial Technology) **Name of the Faculty: Mahjabeen Tarranum**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Fundamentals of Microbial technology & Processes for Microbial Fermentation	• General concepts of microbial technology, principles of exploitation of micro-organisms and their products, Industrial microorganisms– Bacteria, Algae, Fungi, Actinomycetes • Screening of microorganisms for industrial products • Isolation and preservation of microorganisms for industrial products, screening, isolation, selection and improvement of microbial cultures • Strain development– strategies of strain improvement, mutation, selection and recombination; Strain improvement for the selected organism: mutation and screening of improved cultures, random and strategic screening methods • Use of recombinant DNA technology and protoplast fusion techniques for strain improvement, problems associated with strain improvement programme	15	To study the growth phases of micro-organisms and different types of growth media available to culture them. It helps to study about the preparation of pure	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	Students can use micro-organisms to produce products of economic value and to decompose municipal and industrial wastes.

	• Improvement of characters other than products and its application in the industry • Brief history of fermentation; Fermentation-general concepts; Fermentation design– Overview of Aerobic and Anaerobic fermentation process Submerged and solid state fermentation • Factors affecting submerged and solid state fermentation (SSF); Substrates used in SSF and its advantages; Applications of fermentation; • Design of fermentation media culture media; types, components and formulations and modifications. Importance of media in fermentation and media formulation. • Substrates used as Carbon and Nitrogen Inoculum development. • Fermentation process and Factors affecting fermentation process		culture.			
Unit II: Microbial products and Food additives	• Organic acids– Citric acid, Lactic acid, Acetic acid, Gluconic acid • Amino acids– Glutamic acid, Lysine, Aspartic acid • Enzymes– Proteases, Amylases, Lipases, Cellulases & Pectinases; • Enzyme Biosensors • ; Dairy products– Cheese, Yoghurt; Other products-bread, cheese, vinegar, fermented dairy products • Oriental fermented foods, microbial cells as food-single cell proteins; production of alcohol and fermented beverages, beer and wine • Microbial and chemical safety of food products; Food quality & control: Analysis of food	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	
Unit III: Applications of Microbial	• Health care: Production of antibiotics: Penicillin, Streptomycin, Erythromycin • Production of therapeutic drugs, recombinant	15		Lecture + power point presentatio	Assignments Slip tests, internal exam,	

technology	vaccines– BCG, Hepatitis-B • Monoclonal antibodies, Insulin, Vitamins– B 12 , D & C, Riboflavin, Cyanocobalamin • Biofuel and Biodiesel production, methane, alcohol, hydrogen • Biomining- Extraction of Cu, Au and U from ore • Bio plastics (biopolymers), Bioremediation			n + interaction + question answer sessions Blackboard	Revision, question and answer	

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Teaching Lesson Plan

Class: II year **Semester: III**

Paper: I (r-DNA Technology) **Name of the Faculty: Mrs. Nadeem Fatima**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Restriction enzymes and cloning vectors & Construction of Genomic and cDNA libraries	• Host controlled restriction modification • Restriction endonucleases, types and classification. • Modifying enzymes used in molecular cloning, methylases, polymerases ,ligases ,kinases ,phosphatases and nucleases • Vectors for cloning(pUC18),expression vectors (pET) • Vectors for library preparation (lambda phage vectors ,cosmids, BAC&YAC) • Host organisms used in r-DNA technology: E.coli, Ye Introduction to cloning (conventional and recombination based) • Strategies for construction of genomic libraries • Chromosome walking and chromosome jumping for positional cloning of genes • Strategies for construction of cDNA libraries • Construction of subtractive and normalized cDNA libraries	15	It helps to identify, map and sequence genes and to determine their function. It is used for different purposes like in research, medical, agriculture and industry.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	It enables the creation of multiple copies of genes and gene manipulation.

	• PCR-principle ,types and applications					
Unit II: Selection and characterization of recombinant clones	• Genetic Selection-insertional inactivation and alpha complementation • Labeling of nucleic acids • Immunological probes • Selectionoffrecombinantclones-hybridizationtechniques: southern,northern,western,south-western&zooblot) ,colonyhybridization&libraryscreening,hybridarrest&hybridreleasetranslation • DNA sequencing methods- Maxam-Gilbert and Sanger's method, automated sequencing, multiplex sequencing • DNA arrays-principle, spotted DNA array; oligonucleotide chips	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	
Unit III: Advanced techniques and applications of recombinant DNA technology	• Site directed mutagenesis and RNA interference • Knock-in and knock-out technology • Genome engineering technology- CRISPR-Cas system, TALENs &zinc finger, nucleases • Next generation sequencing- principle ,types and applications • Applications of genetic engineering in agriculture & animal husbandry • Applications of genetic engineering in industry and medicine	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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Teaching Lesson Plan

Class: II year **Semester: III**

Paper: II (Bioinformatics) **Name of the Faculty: Dr. Shazia Ahmad**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Foundations of bioinformatics	• Bioinformatics –a historical perspective • Bioinformatics data-nucleic acid sequence, protein sequence, protein structure, genome variation data, gene expression data, proteomic data, metabolic pathways and networks • Bioinformatics data bases – what are databases, why databases, types of databases, file formats (Examples: gen bank-DNA sequence, uniprot-protein sequence, PDB – Structure, CATH, SCOP – protein classification, unigene -transcripts, KEGG – metabolic pathway, dbSNP - variation, RAP-DB-genome-specific) • Data base research engines (entrez and SRS) • Bioinformatics tools and resources – free on line tools, downloadable free tools, software packages, bioinformatics web portals • Role of internet in bioinformatics	15	It helps to deal with computational management and analysis of biological information.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	It helps the student to understand and organize the information associated with molecules on a large scale

Unit II: Sequence comparison methods	• Basics of sequence alignment: match , mismatch , gaps , scoring an alignment (gap penalties linear affine gap penalties), sequence relationships (sequence identity, similarity, homology, orthologs, paralogs & xenologs) • DNA vs protein sequence alignment (permissible replacements, similarity score, Scoring matrices (PAM&BLOSUM)) • Pair wise alignment: dot-matrix comparison of sequences , dynamic programming based pairwise alignment algorithms (global-Needlemanand Wunch algorithm, local – Smith and Waterman algorithm) • Pairwise alignment based database searching - rigorous algorithms for database searching (Needleman-Wunch,Smith-Waterman), heuristic algorithms for database searching (FASTA algorithm and BLAST algorithm) • Multiple-sequence alignment (MSA): significance of MSA • Progressive and iterative based algorithms for multiple sequence alignment, consensus sequence, nucleotide distribution matrix, sequence profile and position specific scoring matrix, multiple sequence alignment based data base searching (profile BLAST)	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	
Unit III: Genomic application & Proteomic and metabolomic application s	• Bioinformatics for genome sequencing, first and next generation methods of genome sequencing ,de-novo and reference based genome sequencing ,genome assembly(reads ,contigs & scaffolds) • Transcript-profiling: expression microarrays (gene array & oligo array) ,transcriptome sequencing and RNA- seq analysis, small lRNA sequencing and analysis • Genome annotation: finding repeats ,gene finding in prokaryotes and eukaryotes, finding promoters and regulatory motifs	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

	• Genome maps and markers: identification of molecular markers (SSR, STS& SNP markers), linkage vs physical maps, displaying genome annotation using genome browsers • Bioinformatics for genome variation studies: identification of whole genome duplications and its implications, segmental duplication (copy number variation) identification and its implications, single nucleotide variation identification and its implications • Medical application of bioinformatics- understanding diseases and identification of disease genes, disease diagnostics, over view of drug discovery, Pharmacogenomics • Protein profiling (2Dgels, protein finger printing & identification) ,protein structure analysis • Protein classification: SCOP and CATH schemes of classification (motifs,domains,folds,class,architecture,family&super family) • Protein structure: structure visualization • Protein: secondary and tertiary structure prediction (homology modelling) • Phylo genetic analysis (distance matrix & UPGMA based tree construction) • Metabolic networks: metabolic pathways and metabolic reconstruction					

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Teaching Lesson Plan

Class: II year **Semester: III**

Paper: III (Food Biotechnology) **Name of the Faculty: Mahjabeen Tarranum**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Fundamentals of Food Nutrition & Food processing and preservation	• Introduction to food, nutrition, nutrient, malnutrition and balanced diet • Nutrient requirement and recommended dietary allowances (RDA) • Carbohydrates-classification, properties, functions and food sources of carbohydrates (sugar, starch, cellulose, glucans, hemicelluloses, gums, peptic substances & polysaccharides); recommended dietary allowances • Lipids-classification, properties, functions and food sources of lipids; recommended dietary allowances • Proteins-classification, properties, functions and food sources of proteins; recommended dietary allowances • Vitamins and Minerals- functions, food sources; recommended dietary allowances. • Scope and importance of food processing	15	To study the fundamental, Physical, Chemical and Biochemical nature of foods. To study about principles of food processing.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	Students learn about preservation, processing, packaging and distribution of food. Individuals can learn about sensory properties of food.

	• Processing of cereals, pulses and oil seeds • Technology for improved process- baking, milk products, cheese making and alcohol production • Food spoilage- factors affecting, role of microorganisms, enzymes, toxins • Food preservation by heating (drying, osmotic dehydration, blanching, canning ,Pasteurization & sterilization), freezing (refrigeration & freeze-drying) ,non-thermal preservation (ultra-filtration, microwave processing & irradiation) • Chemical methods of preservation of foods- use of sugar, salt, chemicals and antibiotics					
Unit II: Functional foods	• Nutra ceuticals- types, processing of nutraceutical products ,therapeutic applications • Pharma foods-diabetic foods (sugar free) ,confectionaries, sodium free, lactose free, phenylalanine free and fibre rich foods-nutritional implications • Dietary supplements-fortification of nutrients in the processed foods & other dietary supplements, hyper nutritious foods (protein powders) • Fat free foods-PUFA oils n3 ,n6 fatty acids, fat free milk powder ,low cholesterol oils and cholesterol free foods • Functional nano foods-benefits of nanotechnology for functional foods • Probiotics and prebiotics- sources and their health benefits	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	
Unit III: Food quality and safety management	• Introduction, scope of food quality and food safety, food adulteration-adulteration in different foods • Evaluation of food quality-appearance, colour texture, viscosity ,consistency, flavor defects and foreign matter • Methods of identification of microbial contamination (bacteria, fungi & virus) of food	15		Lecture + power point presentation + interaction + question answer	Assignments Slip tests, internal exam, Revision, question and answer	

	• Methods of identification of toxic chemicals (food additives, food preservatives, pesticides, dyes, etc.) of food • Nano technology driven food safety- nano packaging ,nano sensors • Food standards and laws- national food safety and food standards regulations, prevention of food adulteration act, safety regulations of genetically modified foods.			sessions Blackboard		

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Teaching Lesson Plan

Class: II year **Semester: III**

Paper: IV (Animal Biotechnology) **Name of the Faculty: Owais Ul Haq**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Animal tissue culture: principles and application & Animal breeding and improvement	• Cell culture technique: cell culture media, sterilization techniques, cell lines ,maintenance and cell adaptation • Characteristics of cells in culture, methods of separation of various cell types, contact inhibition, anchorage dependence, stem cell culture, embryonic stem cell culture and 3 D cell culture. • Cryopreservation- germ plasm conservation • Mass culture of cells- types of cell lines, maintenance of cell lines, manipulation of cells-cell transfection (electroporation and chemical methods) and transduction, immobilization of cells and its application. • Synchronization of cellcultures, production of secondary metabolites, bio transformation, scaling up of animal cell culture • Commercial applications of cell culture: tissue culture as a screening system, diagnostic tests ,mass production of biologically important compounds	15	To study about the set of Biological tools and techniques used in animals for the development of products of commercial value.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	Students can learn about Animal cell, tissue and organ culture techniques like IVF and Embryo transfer.

	(e.g.vaccines) ,harvesting of products ,purification ,assays and tissue engineering • Conventional methods of animal Improvement- selective breeding cross breeding. • Principles of animal breeding; structure of the live stock breeding industry: dairy cattle, beef cattle, swine, sheep ,poultry and aqua culture • Artificial insemination (AI) techniques; super ovulation • Estrus synchronization; embryo collection and transfer; semen collection, evaluation, storage, preservation • Somatic cell nuclear transfer and embryo sexing • In vitro maturation of oocytes, in vitro fertilization, intra cytoplasmic sperm injection (ICSI) and preservation of endangered species.					
Unit II: Genetic tools and their applications	• Basic concepts: genesis and importance of molecular techniques; physical and genetic map,current status of genome maps of live stock • Statistical techniques for analyzing molecular genetic data: quantitative trait loci (QTL) mapping and its application in animal breeding, genome scan, candidate gene approach, genomic selection. • Fundamentals of animal genetics: aqua culture (shrimp, prawns and oyster) and cattle (sheep, buffalo and pig) • Molecular markers and their application in animal improvement- RFLP, RAPD, microsatellite /minisatellite markers, SNP Marker ,DNA fingerprinting • DNA sequencing, genomes equencing ,genomic library, polymerase chain reaction (PCR): its types (PCR-RFLP, AS-PCR) and applications in lives tock development • Identification and isolation of genes of economic	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

	importance					
Unit III: Gene targeting and animal model	• Mouse as a disease model (origin and evolution of mouse, mating & breeding) • Generation of transgenic, knock- out and knock-in mouse; spontaneous and inducible gene expression in mouse ;double transgenics • Cancer models (carcinogenic injection; bone marrow transplantation; xenografts,retrovirus-lentivirus-&adenovirus-based models) • Neuro degenerative disease models (Alzheimers & Parkinsons) • Infectious (Leprosy) and metabolic disease (Obesity & Diabetes) models • Genome editing tools: zinc finger nucleases (ZFNs), TALENs and the CRISPR-Cas system.	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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M.Sc. Biotechnology (2024 – 2025)

Teaching Lesson Plan

Class: II year **Semester: IV**

Paper: I (Bioprocess Engineering) **Name of the Faculty: Mahjabeen Tarranum**

Topic/Unit/Chapter		No. of Classes (From --to--)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Fundamentals of Bioprocess Engineering	• Introduction to Bioprocess Engineering. • Bioprocess kinetics: • Quantitative description of cellular process, • Kinetic modeling, Model structures. • Material Balance and Energy Balances: • Mass balance for ideal bioreactors. • Cell immobilization, production of Bio mass and applications.	15	It deals with design and development of equipments and processes for the manufacture of products like agriculture, food, pharmaceuticals etc…	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	Students learn to evaluate the cultivation, enrichment and growth prevention method of microbes. They can learn to judge how microbes and enzymes could be applies in industry.
Unit II:	• Designing of bioreactors:	15		Lecture +	Assignments	

Upstream process infra structure and considera tions	• Bioreactor types, design configuration, design features, design bioreactors for sterile operations. • Transport phenomenon in bioprocess system: • Mass transfer, Heat transfer, Oxygen transfer, shear stress effects and energy inputs in bioreactors. • Sterilization of media and air: • Design of sterilization process (batch and continuous) • Sterilization of bioreactor, feed and liquid waste, sterilization of air, exhaust air, theory of depth filter, design of depth filter.			power point presentation + interaction + question answer sessions Blackboard	*Slip* tests, internal exam, Revision, question and answer	
Unit III: Downstre am process and product recovery.	• Downstream processing: A multi stage operation • Unit Operations: Solid liquid separation. • filtration, Centrifugation, filter aids, flocculation, foam separation (theory and equipments) • Recovery of intracellular components: Mechanical and non mechanical (chemical and enzymatic methods.) • Concentration of biological products: Evaporation, Liquid-liquid extraction. • Aqueous two phase system (ATPS): Membrane filtration, pervaporation, perstraction, precipitation, adsorption etc.	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

	• Product formulation: Principle and equipments, crystallization, drying, use of different types of dryers and lyophilization. Monitoring of downstream process and process integration					
Unit IV: Bioprocess control measurement and automation	• Classes of sensors: inline, online and offline sensors. • Physical and chemical sensors for media and gases. • Instrumentation and principles for measurement of temperature, flow rate, pressure, agitation shaft power foam sensing, biomass, dissolve oxygen, pH, carbon dioxide. • Automation and control system: manual control, automatic control, PID control and complex control system. • Applications of computers in Bio process engineering: data logging, analysis and control. • Process economics: Cost benefit analysis.	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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Teaching Lesson Plan

Class: II year **Semester: IV**

Paper: II (Medical Biotechnology) **Name of the Faculty: Dr. Shazia Ahmad**

Topic/Unit/Chapter		No. of Classes (From ---- to---)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I: Molecular basis of disease	• Chromosomal disorders-Numerical disorders e.g. Trisomies and Monosomies, Structural disorders e.g.Deletions,Duplications,Translocations and Inversions • Single gene disorders- Sickle Cell Anemia and Thalassemia;Polygenic diseases-Alzheimer's disease, Type1 Diabetes; Mitochondrial diseases- MELAS, MERRF • Infectious disorders- Hepatitis and HIV • Identification of disease genes:Functional cloning-eg.Haemophilia,Positional cloning-eg.DMD; Candidate gene approach- eg. Marfan syndrome • Molecular pathology of genetic diseases – Gain of function mutations-Pittsburg variant of alpha1 antitrypsin; Loss of function mutations -PAX-3 gene; Gene dosage effect-PMP22 ,Collagen gene; Dynamic mutations-Fragile-X syndrome, Myotonic dystrophy • Genomic imprinting - mechanisms, Prader-willi &	15	To study how living cells 1are used for research and production of pharmaceutical and diagnostic products that can treat and prevent	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	Students can learn about genetic disease and relate them to medical experience. They learn of gene therapy.

	Angelman syndrome		human diseases.			
Unit II: Techniques for disease diagnosis	• Prenatal diagnosis- indications for prenatal diagnosis; pre-implantation genetic diagnosis; invasive techniques- amniocentesis, fetoscopy, chorionic villi sampling (CVS); non-invasive techniques- ultrasonography, X-ray, TIFA ,maternal serum screening and fetal cells in maternal blood. • Diagnosis using protein and enzyme markers (PKU-Guthrietest, Dystrophy-Creatine kinase). • Diagnosis using monoclonal antibodies- hormonal disorders & infectious diseases • DNA/RNA based diagnosis- Hepatitis, CML–bcr/abl, HIV • Microarray technology- genomic and cDNAarrays, application to disease diagnosis • Genetic counseling – calculating risk & discussing the options	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	
Unit III: Therapeutics and Management of diseases	• Gene therapy- Ex-vivo, Invivo ,Insitugene therapy; Strategies of Gene Therapy-Gene augmentation, Prodrug therapy/Suicide gene, TFO, Antisense therapy, SmaRT, Ribozymes, Protein aptamers ,Intrabodies • Vectors used in gene therapy: Biological vectors- Retrovirus, Adenoviruses ,Herpes; Synthetic vectors- Liposomes, Receptor mediated gene transfer ;Gene therapy trials: ADA deficiency, Cysticfibrosis, Solidtumours ,HIV, Parkinson disease • RNA interference and its applications in prevention of cancer and generation • of anti viral drugs; Therapeutic genome editing- ZFN, CRISPR-Cas gene editing technology (HIV), TALENS (Leukaemia).	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

	• Enzyme therapy- Gaucher disease; Hormone replacement therapy-Diabetes, • Growth hormone deficiency; Cytokine therapy-Interferons • Pharmaco genomics- Single gene disorders (G6PD) and Multi genic diseases (CHD); Benefits of pharmacogenomics. • DNA based vaccines- Dental caries; Sub unit vaccines-Herpes simplex virus; Attenuated vaccines-Cholera; Vector vaccines-Rabies					
Unit IV: Regenerative medicine, Nanotechnology and Drug delivery systems	• Regenerative medicine: Stem cells- Embryonic and Adult stem cells, Totipotent, Pluri potent and Multi potent cells Characteristics and properties of stem cells • Potential use of stem cells-Cell based therapies • Cell and tissue engineering-Characteristics of cells involved in tissue engineering ;Types and characteristics of biomaterials • Bio artificial organs (Liver, Heart auricles, Blood vessels & Skin) • Nano medicine: Nano materials in medicine-quantum dots, dendrimers, peptide nano tubes, smart drugs ,nano poresensors, nano pore immune isolation devices, nano robots (microbivores, respirocyte), DNA based nano devices; Nano medicine in cancer • Drug delivery systems- criteria for drug delivery systems, drug delivery carriers, controlled release mechanisms, administration routes	15 –		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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ANWARUL ULOOM COLLEGE (AUTONOMOUS)

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New Mallepally, Hyderabad – 500001, T.S,India.

M.Sc. Biotechnology (2024 – 2025)

Teaching Lesson Plan

Class: II year **Semester: IV**

Paper: III (Environment Biotechnology) **Name of the Faculty: Mrs. Nadeem Fatima**

Topic/Unit/Chapter		No. of Classes (From ---- to----)	Objectives	Teaching Aid Used	Assessment	Outcomes
Unit I : Environmental pollution	• Introduction to environmental pollution, types of pollution - air, water and soil pollutions, classification of pollutants- inorganic, organic and biotic • Sources of pollution- domestic waste, agricultural waste ,industrial effluents ,municipal waste ,eutrophication and algal blooms • Fossil fuels as energy source and their impact on environment • Climate change, green house effect and global warming • Heavy metal, insecticide, pesticide and xenobiotic pollution and impact on environment • Environmental monitoring- Bio indicators	15	To study about conservation of rareness by recycling of wastes. To study about environmental problems like detection of pollutants, elimination and detection of wastes.	Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	Students learn to keep the environment clean, to develop environmental friendly products and improve energy sources.

	• Microbial treatment of wastewater (sewage or industrial effluent)- aerobic and anaerobic methods • Solid waste management and composting of organic wastes • Bio remediation of heavy metals-bio sorption and bioaccumulation • Microbial bioremediation of pesticides and xenobiotic compounds • Phyto remediation and its applications • Conservation of bio diversity	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	
Unit II: Biomass and biofuels	• Biomass as renewable energy source • Types of biomass- plant, animal and microbial biomass • Energy crops for carbon sequestration • Animal waste and production of biogas • Production of biofuels: bioethanol, bio hydrogen and bio methane • Production of biodiesel from plants and algae	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	
Unit III: Biofertilizers and biopesticides	• Biofertilizers and their importance • Bacterial biofertilizers- nitrogen fixing and phosphate solubilizing bacteria; algal biofertilizers-blue-green algae and azolla; fungal biofertilizers - mycorrhizae • Integrated nutrient management • Biological control and development of biopesticides • Bacterial, fungal and viral biopesticides • Integrated pest management	15		Lecture + power point presentation + interaction + question answer sessions Blackboard	Assignments Slip tests, internal exam, Revision, question and answer	

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