



Anwarul Uloom College (Autonomous)

(Affiliated to Osmania University)

Accredited with A⁺ Grade by NAAC

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



Department of Arabic

2024 - 2025

Programme:

Programme-Specific Outcomes for

Arabic :BA/B.SC/B.COM/BBA/BBM

S. No	Students completing Arabic will be able to
PSO 1	Communication skills in Arabic and English provide immense career and business opportunities.
PSO 2	Arabic-based computer skills would help in Arabic data entry and back-end operations for banks and software companies.
PSO 3	Work as a translator in the Arab-speaking world.
PSO 4	Students become freelance writers, journalists, and creative artists.
PSO 5	Develop competence and calibre to serve as efficient teachers in Arabic.

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Anwarul Uloom College (Autonomous)
New Mallepally, Hyderabad-01.

COORDINATOR

Internal Quality Assurance Cell
Anwarul Uloom College (Autonomous)
New Mallepally, Hyderabad.

HEAD

Department of Arabic
Anwarul Uloom College (Autonomous)
New Mallepally, Hyderabad-500001, T.S., India.



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Course Outcomes (CO's): Arabic

2024 -2025

Semester I

Course Title: Grammar & Translation, Classical & Modern Prose, History of Prophets and Arabic Literature

S.No	Students will be able to
CO 1	Students will be able to distinguish the Arabic alphabet.
CO 2	Students gain knowledge of the prophets of Almighty Allah.
CO 3	Students will understand the style of classical prose.
CO 4	Know the culture in the pre-Islamic period.
CO 5	Students gain more knowledge about their prayers.

Semester II

Course Title: Applied Grammar & Translation, Prose & History of Arabic Literature

S.No	Students will be able to
CO 1	Learn and Understand Arabic Grammar
CO 2	Learn the classification of different particles in Arabic.
CO 3	Students understand the style of classical prose.
CO 4	Students gain knowledge about the features of the Arabic language.
CO 5	Students Analyze the different styles of writing.



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Semester III

Course Title: Classical & Modern Prose, Grammar, History of Arabic Literature

S.No	Students will be able to
CO 1	Students came to know about the introduction of the Quran.
CO 2	Students gain their knowledge about the King (Nizam) of Hyderabad.
CO 3	They learn about the historical places of hyd.
CO 4	Students Develop proficiency in writing flawless sentences in Arabic.
CO 5	Students learn how the compilation of the Quran takes place.

Semester IV

Course Title: Prose, Grammar and History of Arabic Literature

S.No	Students will be able to
CO 1	Students came to know about the battle of Islam.
CO 2	Students learned how Prophet Mohammed (SW) faced difficulties while preaching Islam.
CO 3	Students understand and learn to make sentences.
CO 4	Enrich themselves with the knowledge of the eminent writers of the Abbasid period.
CO 5	Educate themselves; changes take place during the Islamic period.

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Semester V

Course Title: Translation, Composition, Essay Writing & History of Arabic Literature

S.No	Students will be able to
CO 1	Students understand the skills required to become a professional translator.
CO 2	Students gain knowledge and understand and evaluate the types of Arabic sentences.
CO 3	Students will improve their communicative skills
CO 4	Students gain knowledge of Islamic literature in the Abbasid period.
CO 5	Students derive illumination and insight from the glorious Islamic political history and lay the foundation for future development.

Semester VI

Course Title: Translation, Poetry & History of Arabic Literature

S.No	Students will be able to
CO 1	Enhancement of translation skills from Arabic to English and vice versa.
CO 2	No. Of books that need to be translated awaited translators with writing skills in Arabic and one other language.
CO 3	Study some eminent pieces of classical poetry in Arabic in depth.
CO 4	Closely observe the customs and culture of the Arabs.
CO 5	Identify and study the creative writers who emerged during the last two centuries and their eminent works.

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Department of English

2024 - 2025

Programme-Specific Outcomes: English for All Courses (B.com, B.A, B.sc, B.B.A)

S. No	Students will be able to
PSO 1	Equip students with knowledge of English as a world language.
PSO 2	Equip student with analytical skills in linguistics, communications and literary criticism.
PSO 3	Train students for careers and advanced studies in a wide range of English, Public Relations, or Communications fields.
PSO 4	To Develop Faculty of Skill in Students
PSO 5	Increasing in-depth Knowledge of the Core Areas of the Subject:
PSO 6	Developing a Sense of Experience amongst Students
PSO 7	Nurturing the Notion of Value Education in the Course
PSO 8	Nurturing the Notion of Value Education in the Course

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Department of English

Programme Outcomes (PO)

B.com,B.sc,B.B.A and B.A

(2024-2025)

S. No	Aspects	Programme Outcomes
PO 1	Knowledge	Equipping students with a solid foundation in English Language and Literature,as well as critical thinking and communication skills that are valuable invarious professional and academic pursuits.
PO 2	Problem Analysis	This may involve deconstructing complex narratives,exploring conflicts interpretations,and synthesizing diverse critical perspectives to develop well-supported arguments and insights.This process helps students deepen theirn understanding of literature,enhance their analytical skills and cultivate a nuanced appreciation for the complexities of language.
PO 3	Sensitive to environmental sustainability issues	After completing a course focused on environmental and sustainability issues,students offen develop a heightened awareness of the interconnectedness between human activities and the environment.

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PO 4	Ethics and Communication	<p>Students typically achieve a comprehensive understanding of ethical principles and their application in various communication contexts. They gain proficiency in crafting messages that are honest, transparent and culturally sensitive, promoting ethical communication in personal, professional and social interactions.</p>
PO 5	Individuality and Teamwork	<p>Individuality allows students to bring their diverse perspectives, knowledge, and skills to the table. It encourages critical thinking, creativity, and the ability to approach problems from different angles. Embracing individuality in a degree program can lead to unique research ideas, innovative solutions, and personal growth.</p> <p>At the same time, teamwork is essential for degree students to effectively collaborate with peers, communicate ideas, and achieve common academic goals. Working in teams helps students develop interpersonal skills, learn from others, and leverage collective intelligence to tackle complex assignments or research projects.</p>



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PO 6

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Employers look for a combination of technical skills, soft skills, and practical experience. Technical skills related to the specific field of study are crucial, as they demonstrate expertise and proficiency in the subject matter. Soft skills like communication, teamwork, problem-solving, and adaptability are also highly valued as they contribute to a student's overall employability.

Competencies for Employment and Research

skills, and practical experience. Technical skills related to the specific field of study are crucial, as they demonstrate expertise and proficiency in the subject matter. Soft skills like communication, teamwork, problem-solving, and adaptability are also highly valued as they contribute to a student's overall employability.

PO 7

Cultural and global Engagements

Cultural and global engagements offer valuable outcomes for students. By engaging with different cultures and global perspectives, students can broaden their horizons, develop intercultural competence, and enhance their understanding of diverse worldviews. Cultural and global engagements empower for students to become global citizens, equipped with the skills and knowledge to navigate an interconnected world, contribute meaningfully to society, and thrive in diverse professional environments.

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Course Outcomes (CO's): English for All Courses (B.com,B.A,B.sc,B.B.A)

2024 -2025

Semester I

Course Title: English Paper - I

Course Code: ESL101


S.No	Students will be able to
CO 1	To attain high proficiency in English language
CO 2	To speak and write the language with ease and confidence
CO 3	To identify the common language errors and correct them.
CO 4	To improve the knowledge of the language qualitatively.
CO 5	To speak and write the language with ease and confidence


Semester II


Course Title: English Paper - II

Course Code: ESL101

S.No	Students will be able to
CO 1	To familiarize the youth with how literature represents, discusses and problematizes identity.
CO 2	To bring about excellence in life and art through the assorted experiences offered by literary
CO 3	To develop a wide reading of fiction and poetry among the youth.
CO 4	To acquaint with the main currents of American Literature..
CO 5	Appreciate and Analysis of varied ages and Literary contexts.


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Semester III

Course Title: English Paper - III

Course Code: ESL101

S.No	Students will be able to
CO 1	Understanding of how grammar can be manipulative to achieve specific effects in Prose and Poetry.
CO 2	Reflect on the growth of English and the way the Literary imagination has grappled with such growth and change.
CO 3	To develop the chronological approach to the study of Poetry, Drama.
CO 4	To develop the chronological approach to the study of Fictional and Non-Fictional Prose.
CO 5	Learn to analysis texts as representative of broad generic exploration.

Semester IV

Course Title: English Paper - IV

Course Code: ESL101

S.No	Students will be able to
CO 1	Ability to navigate sensitive topics with cultural awareness and inclusivity in Prose and Poetry.
CO 2	Analyse and examine the themes and topics from the puritan age.
CO 3	To understand the representation of distinctive qualities of a particular genre.
CO 4	To Analyse the text in their respective social and cultural and contexts.
CO 5	To reflect on british life and culture through a study of texts.

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Semester V

Course Title: English Paper - V

Course Code: ESL101

S.No	Students will be able to
CO 1	Identify the different modes of creative expression and the characteristics associated with it.
CO 2	Understand and interpret a text by placing it in relation to its social historical and cultural contexts.
CO 3	To acquaint students in proficiency using grammar for making sentences.
CO 4	Help students learn to comprehend unseen passages.
CO 5	Help students get expertise in flawless writing.

Semester VI

Course Title: English Paper - VI

Course Code: ESL101

S.No	Students will be able to
CO 1	Enhance understanding of grammar rules and application in Prose and Poetry.
CO 2	Mastery of Grammar techniques to convey meaning effectively in creative writing.
CO 3	Ability to analyze and interpret grammatical structure in literary works.
CO 4	Improve writing skills with focus on grammar precision in both Prose and Poetry.
CO 5	Appreciation of how grammar choices impact the tone, style, prose and overall impact of Prose and Poetry.

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New Mallepally, Hyderabad, T.S. India

Program Outcomes

Department of Urdu

Deg 1st Year Sem I

2024-25

حصہ نثر و نظم I یونٹ

اس یونٹ میں طلبا کو محمد قلی قطب شاہ کے حالات زندگی اور ان کی شاعری کے بارے میں سمجھا یا جائیگا۔
طلبا محمد قلی قطب شاہ کی نظم کی تشریح سمجھیں گے۔

طلبا کو محمد قلی قطب شاہ اور نظیر اکبر آبادی کی شاعری کی خصوصیات سمجھا ئی جائیگی۔

طلبا انشائیہ کے بارے میں پڑھیں گے اور ساتھ ہی انہیں مشتاق احمد یوسفی کا انشائیہ ”پڑھنیے اگر بیمار“ کا تجزیہ کر وایا جائیگا۔

نظم ”توحید“ کے ذریعہ اللہ کی واحدانیت کے بارے میں سمجھا یا گیا۔

نثر و نظم II یونٹ

طلبا اس یونٹ میں سراج اورنگ آبادی، نظیر اکبر آبادی کی حالات زندگی اور ان کی شاعری کی خصوصیات کو سمجھیں گے۔

طلبا کو ”حکایت“ کے بارے میں وضاحت دی جائیگی۔ اور ساتھ ہی ”حکایت سعادی“ کے بارے میں سمجھا یا جائیگا۔

طلبا ”افسانہ“ کی تعریف اور تاریخ کے بارے میں پڑھیں گے۔

افسانہ ”یہ غازی تیرے پر اسرار بندے“ کے بارے میں طلبا کو سمجھا یا جائیگا۔

سراج اورنگ آبادی کی غزل گوئی کے بارے میں طلبا کو سمجھا یا گیا۔

حصہ نثر و نظم III یونٹ

طلبا اس یونٹ میں شاعر ”میر تقی میر“ کی حالات زندگی کا تجزیہ کریں گے۔

میر تقی میر کی دو غزلوں کی تشریح کو طلبا سمجھیں گے۔

طلبا کو اردو میں سفر نامے کے آغاز و ارتقاء کے بارے میں سمجھا یا جائیگا۔

طلبا مشہور شاعر ”شاذ تمکنت“ کے حالات زندگی کا مطالعہ کریں گے اور نظم ”اب کے برس“ کا مطالعہ کریں گے۔

حصہ نثر و نظم IV یونٹ

طلبا الطاف حسین حالی کی دو غزلوں کا جائزہ لیں گے۔

طلبا کو اس یونٹ میں شامل الطاف حسین حالی کی دو غزلوں کی تشریح سمجھانی جائیگی۔

طلبا شاعر حافظ جالندھری کے حالات زندگی کو پڑھیں گے۔

افسانہ کی ابتداء و ارتقاء کے بارے میں سمجھا یا گیا۔

Chairman & Head
Dept. of Urdu

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Program Outcomes
Department of Urdu
Deg 1st Year Sem II

2024-25

حصہ نظم I یونٹ

طلبا کو اس یونٹ میں ولی دکنی کی دو غزلوں کی تشریح سمجھائی جائیگی۔
طلبا اکبر الہ آباد اور شاعر مقدم کے حالات زندگی کا جائزہ لیں گے۔

حصہ نظم و نثر II یونٹ

طلبا کو اردو ڈرامہ کی تعریف اور تاریخ واقف کر وایا جائیگا۔

طلبا امتیاز علی تاج اور بیگم قدسیہ کا ڈرامہ "تلاش" کو پڑھیں گے۔

طلبا شاعر آتش کی شاعری کو سمجھیں گے اور ساتھ ہی ان کے حالات زندگی کا جائزہ لیں گے۔

حصہ غزل III یونٹ

اس یونٹ میں طبا کو مرزا اسد اللہ خاں غالب کی دو غزلوں کی وضاحت کی جائیگی۔

طلبا اردو ادب میں فنون لطیفہ کا جائزہ لیں گے۔

طلبا کو "خاکہ" کی تعریف اور اس کی خصوصیت کے بارے میں سمجھا یا جائیگا۔

خاکہ نگار سلیمان آریب کی حالات زندگی کو طبا پڑھیں گے۔ اور خاکہ "سلیمان آریب" کا جائزہ لیں گے۔

حصہ نظم و نثر IV یونٹ

طلبا مرزا اسد اللہ خاں غالب کی حیات زندگی کا مطالعہ کریں گے۔

طلبا شاعر لدھیانوی کے حالات زندگی اور ان کی شاعری کا جائزہ لیں گے۔

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Program Outcomes
Department of Urdu
Deg 2nd Year Sem III

2024-25

حصہ نظم و نثر I یونٹ

- طلباء کو اس یونٹ میں جدید اور قدیم مثنوی میں فرق سمجھا یا جائیگا۔
- مثنوی "امن نامہ" کا خلاصہ سمجھا یا جائیگا۔
- طلباء مشہور شاعر جان نثار اختر، میر انیس کے حالات زندگی کا مطالعہ کریں گے۔
- طلباء رپورتاژ کے بارے میں سمجھیں گے۔

حصہ نظم و نثر II یونٹ

- طلباء کو داستان کی اہمیت اس کی افادیت کے بارے میں سمجھا یا جائیگا۔
- طلباء داستان کی خصوصیت کو سمجھیں گے۔ داستان کی ابتداء و ارتقا پر روشنی ڈالی جائیگی۔
- اس یونٹ میں طلباء کو "ربا عیات" کی تعریف و تاریخ کے بارے میں سمجھا یا جائیگا۔
- طلباء کو شاعر "جگت موہن رواں" اور "ملا وجہی" کے حالات زندگی کے بارے میں آگاہ کیا جائیگا۔

نثر و نظم III یونٹ

- طلباء صنف قطعات کے بارے میں سمجھیں گے۔
- قطعات کی تعریف، تاریخ، اور اس اہمیت کے بارے میں طلباء کو سمجھا یا جائیگا۔
- طلباء کو شاعر میر انیس کے قطعہ "دنیا بھی عجب سرائے فانی دیکھی" کی تشریح سمجھائی جائیگی۔
- انشائیہ کی تعریف سے طلباء کو واقف کر وایا جائیگا۔
- انشائیہ "نوق چائے نوشی" کو سمجھا یا جائیگا اس کے علاوہ ابوالکلام آزاد کے حالات زندگی کو بیان کیا جائیگا۔

نثر و نظم IV یونٹ

- اس یونٹ میں طلباء کو اردو میں مضمون نگاری کی تعریف سمجھائی جائیگی۔
- قدیم دکنی اردو کی خصوصیات سے طلباء کو واقف کر وایا جائیگا۔
- نصیر الدین ہاشمی اور جگت موہن لال رواں کے حالات زندگی کو بیان کیا جائیگا۔



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Program Outcomes
Department of Urdu
Deg 2nd Year Sem IV

2024-25

حصہ نظم 1 یونٹ

اس سمسٹر کے یونٹ میں روایتی اور شخصی مرثیہ کے بارے میں طلبا کو سمجھا یا جائیگا۔

الطاف حسین حالی کی حالات زندگی کے بارے میں سمجھا یا جائیگا۔

طلبا کو شخصی مرثیہ ”مرثیہ غالب“ کے بارے میں سمجھا یا جائیگا۔

طلبا کو ”میر تقی میر“ کی شاعری اور ان کی غزل کے بارے میں سمجھا یا جائیگا۔

میر تقی میر کی دو غزلیات کی تشریح کی جائیگی۔

طلبا شاعر جو ش ملیح آبادی کے حالات زندگی کا مطالعہ کریں گے۔ ساتھ ہی ان کی ایک غزل کی تشریح کا بھی جائزہ لیں گے۔

حصہ نظم II یونٹ

طلبا کو اس یونٹ میں ”نیچرل نظم“ تعریف سمجھائی جائیگی۔

طلبا نیچرل نظم ”مرغابی“ کا خلاصہ سمجھیں گے

طلبا کو شاعر ”شوکت علی تھانوی“ کی غزل کی تشریح سمجھائی جائیگی۔

حصہ نظم III یونٹ

طلبا کو ”وطنی نظم“ کی تعریف سمجھائی جائیگی اور ساتھ ہی وطنی نظم ”خاک ہند“ کا مطالعہ کر دیا جائیگا۔

طلبا کو شاعر محسن کاکوری، شاعر برج نارائن جکبست کے حالات زندگی کا مطالعہ کر دیا جائیگا۔

حصہ نظم IV یونٹ

طلبا کو ”آزاد نظم“ کی تعریف اور اس کی خصوصیت سمجھائی جائیگی۔

طلبا کو آزاد نظم ”تبوک آواز دے رہا ہے“ کی تشریح کر وائی جائیگی۔

طلبا جدید اور روایتی نظم کا جائزہ لیں گے۔

طلبا جدید نظم ”دھرتی تیرا مجھ سے روپ“ کی تشریح سمجھیں گے۔

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حصہ نثر I یونٹ

طلبا کو فنون لطیفہ کی اہمیت سے واقف کر وایا جائیگا۔

طلبا ادب کی تعریف سمجھیں گے اور افسانہ کی تعریف اور تاریخ کے بارے میں پڑھیں گے۔

حصہ نثر II یونٹ

طلبا حقیقت اور ادب میں فرق کو محسوس کریں گے۔

طلبا کو شاعری کی مختلف اصناف کے بارے میں سمجھا یا جائیگا۔

حصہ نثر III یونٹ

اس یونٹ میں طلبا کو داستان کی تعریف و تاریخ کے بارے میں بتلایا جائیگا

طلبا داستان کے اقسام کو سمجھیں گے

طلبا کو منظوم اور نثری داستان کے فروق کے بارے میں سمجھا یا جائیگا۔

نثر IV یونٹ

طلبا کو ناول کی تعریف و تاریخ سے آگاہ کیا جائیگا

طلبا اردو ادب میں ڈرامہ کا جائزہ لیں گے

طلبا کو ناول اور ڈرامہ میں فرق بھی سمجھا یا جائیگا

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I یونٹ

طلبا کو اردو کی ابتداء اور ارتقا کے بارے میں تفصیل سے سمجھا یا جائیگا
طلبا اس کو بات کو سمجھیں گے کہ اردو زبان کے فروق میں اولیا نے اکرام کا کیا حصہ تھا
طلبا کو قطب شاہی، عادل شاہی حکومتوں کے قیام کے بارے میں سمجھا یا جائیگا۔
طلبا قطب شاہی اور عاشاہی دور کے شعراء کی تعریف اور ان کی شعری خصوصیات کے بارے میں پڑھیں گے

II یونٹ

طلبا ولی دکنی کی حالات زندگی کے بارے میں سمجھنے کی کوشش کریں گے
طلبا کو ولی دکنی اور ان کے معاصرین کے بارے میں پڑھا یا جائے گا۔
طلبا میر تقی میر اور محمد رفیع سودا کے حالات زندگی کے بارے میں پڑھیں گے اور دونوں شعراء کے دور کے سیاسی حالات کو سمجھیں گے۔

طلبا کو دبستان دہلی کے شعراء اور اس کی شاعری کی خصوصیات کے بارے میں سمجھا یا جائیگا۔

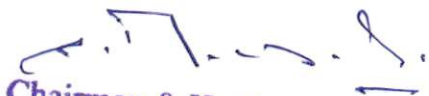
طلبا ترقی پسند تحریک کی ابتداء و ارتقا کے بارے میں سمجھیں گے

III یونٹ

طلبا دبستان لکھنؤ کے شعراء کی حالات زندگی اور ان کی شاعری کو سمجھیں گے۔
طلبا کو شاعر اسد اللہ خاں غالب اور مومن کی شاعری و ان شعراء کی حالات زندگی سمجھائی جائیگی۔
طلبا فورٹ ولیم کالج کے قیام اور اس قیام سے اردو ادب کو ہونے والے فائدہ کا جائزہ لیں گے۔
طلبا جدید اور قدیم اردو ادب کا مطالعہ کریں گے۔

IV یونٹ

طلبا کو اردو اخبار "اودھ پنچ" کی ادبی خدمات کے بارے میں واقف کر وایا جائیگا۔
طلبا دلی کالج اور علی گڑھ تحریک کے بارے میں مطالعہ کریں گے۔
طلبا سرسید احمد خاں کی زندگی کا مطالعہ کریں گے اور ان کے رفقا کے بارے میں تفصیل سے پڑھیں گے۔
دلی کالج کا قیام اور اردو زبان کی ترقی و ترویج کا طلبا جائزہ لیں گے۔



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حصہ نثر و نظم I یونٹ

اس یونٹ میں طلبا کو محمد قلی قطب شاہ کے حالات زندگی اور ان کی شاعری کے بارے میں سمجھا یا جائیگا۔

طلبا محمد قلی قطب شاہ کی نظم کی تشریح سمجھیں گے۔

طلبا کو محمد قلی قطب شاہ اور نظیر اکبر آبادی کی شاعری کی خصوصیات سمجھا ئی جائیگی۔

طلبا انشائیہ کے بارے میں پڑھیں گے اور ساتھ ہی انہیں مشتاق احمد یو سفی کا انشائیہ ”پڑھنیے اگر بیمار“ کا تجزیہ کر وایا جائیگا۔

نظم ”توحید“ کے ذریعہ اللہ کی واحدانیت کے بارے میں سمجھا یا گیا۔

نثر و نظم II یونٹ

طلبا اس یونٹ میں سراج اورنگ آبادی، نظیر اکبر آباد کی حالات زندگی اور ان کی شاعری کی خصوصیات کو سمجھیں گے۔

طلبا کو ”حکایت“ کے بارے میں وضاحت دی جائیگی۔ اور ساتھ ہی ”حکایت سعادی“ کے بارے میں سمجھا یا جائیگا۔

طلبا ”افسانہ“ کی تعریف اور تاریخ کے بارے میں پڑھیں گے۔

افسانہ ”یہ غازی تیرے پر اسرار بندے“ کے بارے میں طلبا کو سمجھا یا جائیگا۔

سراج اورنگ آبادی کی غزل گوئی کے بارے میں طلبا کو سمجھا یا گیا۔

حصہ نثر و نظم III یونٹ

طلبا اس یونٹ میں شاعر ”میر تقی میر“ کی حالات زندگی کا تجزیہ کریں گے۔

میر تقی میر کی دو غزلوں کی تشریحی کو طلبا سمجھیں گے۔

طلبا کو اردو میں سفر نامے کے آغاز و ارتقاء کے بارے میں سمجھا یا جائیگا۔

طلبا مشہور شاعر ”شاذ تمکنت“ کے حالات زندگی کا مطالعہ کریں گے اور نظم ”اب کے برس“ کا مطالعہ کریں گے۔

حصہ نثر و نظم IV یونٹ

طلبا الطاف حسین حالی کی دو غزلوں کا جائزہ لیں گے۔


طلبا کو اس یونٹ میں شامل الطاف حسین حالی کی دو غزلوں کی تشریح سمجھائی جائیگی۔

طلبا شاعر حافظ جا لندھری کے حالات زندگی کو پڑھیں گے۔

افسانہ کی ابتداء و ارتقاء کے بارے میں سمجھا یا گیا۔


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حصہ نظم I یونٹ

طلبا کو اس یونٹ میں ولی دکنی کی دو غزلوں کی تشریح سمجھانی جائیگی۔
طلبا اکبر الہ آباد اور شاعر مقوم کے حالات زندگی کا جائزہ لیں گے۔

حصہ نظم و نثر II یونٹ

طلبا کو اردو ڈرامہ کی تعریف اور تاریخ واقف کر وایا جائیگا۔

طلبا امتیاز علی تاج اور بیگم قدسیہ کا ڈرامہ "تلاش" کو پڑھیں گے۔

طلبا شاعر آتش کی شاعری کو سمجھیں گے اور ساتھ ہی ان کے حالات زندگی کا جائزہ لیں گے۔

حصہ غزل III یونٹ

اس یونٹ میں طلبا کو مرزا اسد اللہ خاں غالب کی دو غزلوں کی وضاحت کی جائیگی۔

طلبا اردو ادب میں فنون لطیفہ کا جائزہ لیں گے۔

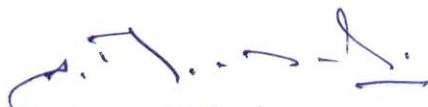
طلبا کو "خاکہ" کی تعریف اور اس کی خصوصیت کے بارے میں سمجھا یا جائیگا۔

خاکہ نگار سلیمان آریب کی حالات زندگی کو طلبا پڑھیں گے۔ اور خاکہ "سلیمان آریب" کا جائزہ لیں گے۔

حصہ نظم و نثر IV یونٹ

طلبا مرزا اسد اللہ خاں غالب کی حیات زندگی کا مطالعہ کریں گے۔

طلبا شاعر لدھیانوی کے حالات زندگی اور ان کی شاعری کا جائزہ لیں گے۔



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حصہ نظم و نثر I یونٹ

طلبا کو اس یونٹ میں جدید اور قدیم مثنوی میں فرق سمجھا یا جائیگا۔

مثنوی ”امن نامہ“ کا خلاصہ سمجھا یا جائیگا۔

طلبا مشہور شاعر جاں نثار اختر، میر انیس کے حالات زندگی کا مطالعہ کریں گے۔

طلبا رپورٹاژ کے بارے میں سمجھیں گے۔

حصہ نثر و نظم II یونٹ

طلبا کو داستان کی اہمیت اس کی افادیت کے بارے میں سمجھا یا جائیگا۔

طلبا داستان کی خصوصیت کو سمجھیں گے۔ داستان کی ابتداء و ارتقا پر روشنی ڈالی جائیگی۔

اس یونٹ میں طلبا کو ”ربا عیات“ کی تعریف و تاریخ کے بارے میں سمجھا یا جائیگا۔

طلبا کو شاعر ”جگت موہن رواں“ اور ”ملا وجہی“ کے حالات زندگی کے بارے میں آگاہ کیا جائیگا۔

نثر و نظم III یونٹ

طلبا صنف قطعات کے بارے میں سمجھیں گے۔

قطعات کی تعریف، تاریخ، اور اس اہمیت کے بارے میں طلبا کو سمجھا یا جائیگا۔

طلبا کو شاعر میر انیس کے قطعہ ”دنیا بھی عجب سرائے فانی دیکھی“ کی تشریح سمجھائی جائیگی۔

انشائیہ کی تعریف سے طلبا کو واقف کر وایا جائیگا۔

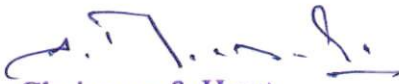
انشائیہ ”ذوق چائے نوشی“ کو سمجھا یا جائیگا اس کے علاوہ ابوالکلام آزاد کے حالات زندگی کو بیان کیا جائیگا۔

نثر و نظم IV یونٹ

اس یونٹ میں طلبا کو اردو میں مضمون نگاری کی تعریف سمجھائی جائیگی۔

قدیم دکنی اردو کی خصوصیات سے طلبا کو واقف کر وایا جائیگا۔

نصیر الدین ہاشمی اور جگت موہن لال رواں کے حالات زندگی کو بیان کیا جائیگا۔



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حصہ نظم 1 یونٹ

اس سمسٹر کے یونٹ میں روایتی اور شخصی مرثیہ کے بارے میں طلبا کو سمجھا یا جائیگا۔
الطاف حسین حالی کی حالات زندگی کے بارے میں سمجھا یا جائیگا۔
طلبا کو شخصی مرثیہ ”مرثیہ غالب“ کے بارے میں سمجھا یا جائیگا۔
طلبا کو ”میر تقی میر“ کی شاعری اور ان کی غزل کے بارے میں سمجھا یا جائیگا۔
میر تقی میر کی دو غزلیات کی تشریح کی جائیگی۔
طلبا شاعر جو ش ملیحی آبادی کے حالات زندگی کا مطالعہ کریں گے۔ ساتھ ہی ان کی ایک غزل کی تشریح کا بھی جائزہ لیں گے۔

حصہ نظم II یونٹ

طلبا کو اس یونٹ میں ”نیچرل نظم“ تعریف سمجھائی جائیگی۔
طلبا نیچرل نظم ”مرغا بی“ کا خلاصہ سمجھیں گے۔
طلبا کو شاعر ”شوکت علی تھانوی“ کی غزل کی تشریح سمجھائی جائیگی۔


حصہ نظم III یونٹ


طلبا کو ”وطنی نظم“ کی تعریف سمجھائی جائیگی اور ساتھ ہی وطنی نظم ”خاک بند“ کا مطالعہ کر دیا جائیگا۔
طلبا کو شاعر محسن کاکوری، شاعر برج نارائن جکبست کے حالات زندگی کا مطالعہ کر دیا جائیگا۔

حصہ نظم IV یونٹ

طلبا کو ”آزاد نظم“ کی تعریف اور اس کی خصوصیت سمجھائی جائیگی۔
طلبا کو آزاد نظم ”تبوک آواز دے رہا ہے“ کی تشریح کروانی جائیگی۔
طلبا جدید اور روایتی نظم کا جائزہ لیں گے۔
طلبا جدید نظم ”دھرتی تیرا مجھ سے روپ“ کی تشریح سمجھیں گے۔


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حصہ نثر I یونٹ

طلبا کو فنون لطیفہ کی اہمیت سے واقف کر وایا جائیگا۔
طلبا ادب کی تعریف سمجھیں گے اور افسانہ کی تعریف اور تاریخ کے بارے میں پڑھیں گے۔

حصہ نثر II یونٹ

طلبا حقیقت اور ادب میں فرق کو محسوس کر یں گے۔

طلبا کو شاعری کی مختلف اصناف کے بارے میں سمجھا یا جائیگا۔

حصہ نثر III یونٹ

اس یونٹ میں طلبا کو داستان کی تعریف و تاریخ کے بارے میں بتلا یا جائیگا

طلبا داستان کے اقسام کو سمجھیں گے

طلبا کو منظوم اور نثری داستان کے فروق کے بارے میں سمجھا یا جائیگا۔

نثر IV یونٹ

طلبا کو ناول کی تعریف و تاریخ سے آگاہ کیا جائیگا

طلبا اردو ادب میں ڈرامہ کا جائزہ لیں گے

طلبا کو ناول اور ڈرامہ میں فرق بھی سمجھا یا جائیگا



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Deg 3rd Year Sem V
2024-25

I یونٹ

طلبا کو اردو کی ابتداء اور ارتقا کے بارے میں تفصیل سے سمجھا یا جائیگا
طلبا اس کو بات کو سمجھیں گے کہ اردو زبان کے فروق میں اولیا نے اکرام کا کیا حصہ تھا
طلبا کو قطب شاہی، عادل شاہی حکومتوں کے قیام کے بارے میں سمجھا یا جائیگا۔
طلبا قطب شاہی اور عاشاہی دور کے شعراء کی تعریف اور ان کی شعری خصوصیات کے بارے میں پڑھیں گے

II یونٹ

طلبا ولی دکنی کی حالات زندگی کے بارے میں سمجھنے کی کوشش کریں گے
طلبا کو ولی دکنی اور ان کے معاصرین کے بارے میں پڑھا یا جائے گا۔
طلبا میر تقی میر اور محمد رفیع سودا کے حالات زندگی کے بارے میں پڑھیں گے اور دونوں شعراء کے دور کے سیاسی حالات کو سمجھیں گے۔

طلبا کو دبستان دہلی کے شعراء اور اس کی شاعری کی خصوصیات کے بارے میں سمجھا یا جائیگا۔
طلبا ترقی پسند تحریک کی ابتداء اور ارتقا کے بارے میں سمجھیں گے

III یونٹ

طلبا دبستان لکھنؤ کے شعراء کی حالات زندگی اور ان کی شاعری کو سمجھیں گے۔
طلبا کو شاعر اسد اللہ خاں غالب اور مومن کی شاعری و ان شعراء کی حالات زندگی سمجھائی جائیگی۔
طلبا فورٹ ولیم کالج کے قیام اور اس قیام سے اردو ادب کو ہونے والے فائدہ کا جائزہ لیں گے۔
طلبا جدید اور قدیم اردو ادب کا مطالعہ کریں گے۔

IV یونٹ

طلبا کو اردو اخبار ”اودھ پنچ“ کی ادبی خدمات کے بارے میں واقف کر وایا جائیگا۔
طلبا دلی کالج اور علی گڑھ تحریک کے بارے میں مطالعہ کریں گے۔
طلبا سرسید احمد خاں کی زندگی کا مطالعہ کریں گے اور ان کے رفقا کے بارے میں تفصیل سے پڑھیں گے۔
دلی کالج کا قیام اور اردو زبان کی ترقی و ترویج کا طلباء کا جائزہ لیں گے۔


Chairman & Head
Dept. of Urdu
Anwarul-Uloom College (Autonomous)
New Malleshpally, Hyderabad-500001, T.S.


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Anwarul Uloom College (Autonomous)
New Malleshpally, Hyderabad.


PRINCIPAL
Anwarul Uloom College (Autonomous)
New Malleshpally, Hyderabad-01.

Subject:- Hindi



Anwarul Uloom College (Autonomous)

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 New Mallepally, Hyderabad, Telangana-01.
 ESTD-1919


A Grade

Class:- 1st Year (1st Sem)

Name: Mrs. N. Rehana Ban

LESSON	OBJECTIVES	OUTCOMES
गद्य दर्पण		
1. उत्साह	प्रस्तुत निबंध में लेखक ने मानव मन में उत्पन्न 'उत्साह' नामक भाव की व्याख्या की है।	छात्रों को निबंध, संवाद, सारांश, पत्र इत्यादि लिखने की कला को प्रशिक्षण करने का प्रयास करना।
2. चरित्र संगठन	लेखक के अनुसार मनुष्य अपने चरित्र के कारण समाज में विशेष स्थान रखता है।	छात्रों में भाषा के अधिक से अधिक अध्ययन की प्रेरणा उत्पन्न करना।
3. वाजार दर्शन	वाजार दर्शन से ब्राह्मणों को होनेवाले शोषण पर इस में व्यंग्य किया गया है।	छात्रों में अपने विचारों को मौखिक एवं लिखित रूप में अभिव्यक्त करने की रुचि का विकास करना।
4. भाषा	लेखक ने भारतीय समाज में विधवा की जो दयनीय स्थिति का संजीव चित्रण किया गया है।	छात्रों में शब्दों और विचारों के बीच संबंधों को समझने की समझ उत्पन्न करना।
5. भारता में संस्कृति संगम	भारतीय संस्कृति की समन्वयात्मकता और विशिष्टता का इसमें परिचय प्राप्त होता है।	छात्रों में शुद्ध भाषा के भावों को अभिव्यक्त करने की क्षमता का विकास करना।
6. राष्ट्र का स्वरूप	लेखक ने राष्ट्र को अंगों के माध्यम से ही राष्ट्र के स्वरूप पर विचार किया है।	छात्रों को शीर्षक और विवरण के साथ दृष्टान्तों के माध्यम से वक्ता में प्रयोग करना।
कथा शिंधु		
1. सद्गति	दलित के शोषण की अमानवीय व्यवस्था और दलितों की नारतम्रिय यातनाओं का सजीव चित्रण किया गया है।	छात्रों को कहानियों में दिलचस्पी का विकास करना।
2. छोटा जादूगर	छोटा जादूगर के इन मानवीय गुणों का उद्घाटन कर आत्मनिर्भरता और दक्षिण बोध का संदेश देना ही कहानी का उद्देश्य है।	छात्रों में माता-पिता के प्रति सम्मान भाव जागृत करना।
3. सच का सौदा	इस कहानी को द्वारा यह संदेश दिया गया है कि जीवन में धर्म एवं सत्य के मार्ग का अनुसरण करना चाहिये।	छात्रों में शुद्ध एवं शिष्ट भाषा सीखने तथा इन दोनों सामान्य जानकारी प्राप्त करने की प्रवृत्ति का विकास करना।
4. प्रायश्चित	प्रायश्चित कहानी में पारिवारिक रूढ़ियों पर व्यंग्य किया गया है।	छात्रों में कहानी की रचनाशीलता का विकास करना।
5. घरना	इस कहानी से मध्यवर्गीय लोगों के मिथ्याभिमान और उससे जुड़ी विपश्चिता दयनीय स्थिति की जानकारी हो जाती है।	छात्रों में कहानी में निहित भावों, विचारों, नैतिक मूल्यों को ग्रहण करने की क्षमता विकसित करना।
6. वीक की दापत	वीक की दापत मध्यवर्गीय जीवन में आ रहे पीढ़ियों के अंतराल की कहानी है। पश्चात्य सभ्यता और संस्कृति का प्रभाव हमारे देश में किस हद तक है उसका सजीव वर्णन उसमें किया गया है।	छात्रों को एकदूसरे से वास्तविकता के लिए प्रेरित करना।

 Head of the Department
 Hindi

 Anwarul Uloom Degree College
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Subject:- Hindi



Anwarul Uloom College (Autonomous)

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 ESTD-1918


A Grade

Class:- 1st Year (2nd semester)

Name: Mrs. N. Reha

LESSON	OBJECTIVES	OUTCOMES
गद्य दर्पण 1. धरती का स्वर्ण 2. ताई 3. अंडे के छिलके 4. राजनीति का बंदवारा 5. स्थानी विवेकानंद 6. पर्यावरण और हम	प्रस्तुत पाठ में लेखक ने भारत की 'धरती का स्वर्ण' का सुंदर वर्णन किया है। इसमें बताया गया है कि मगरव से प्रेम उत्पन्न होता है और प्रेम से मगरवा लेखक ने बदलते हुए पारिवारिक और सामाजिक परिवेश में नारी को प्रति बदलते मूल्यों को उज्झोने भली-भाँति रेखांकित किया है। प्रस्तुत पाठ 'राजनीति का बंदवारा' में परसाई ने तत्कालीन समाज में व्याप्त राजनीति पर व्यंग्य किया है। प्रस्तुत पाठ में विवेकानंद को जीवन का बड़ा ही प्रभावशाली वर्णन किया है। प्रस्तुत पाठ में वह बताते का प्रयास किया है कि पिछले कई दशकों से प्रदूषण की समस्या गाँव से लेकर विश्व स्तर तक फैल गयी है। इस कहानी में पिता को पुत्र को प्रति स्नेहापूर्ण हृदय की ओर की दर्शाया होता है। गदगा गुजरान की एक अत्यंत स्वाभिमानी, स्वावलंबी तथा सादसी स्त्री की कहानी है। इस कहानी में मृत्यु को अवसर पर मनुष्य की स्वार्थी प्रवृत्ति पर व्यंग्य किया गया है। इसमें मध्यवर्गीय बदलते पारिवारिक संकरों की चर्चाओं की प्रस्तुत की गई है। इस कहानी में गमता कादिया ने समाज को तार-तार कर देने वाली कटु सत्य के बारे में बताया है। इस कहानी में डॉ. सुशीला टाकमौर ने 'मिलिया' नामक मुख्य पात्र को माध्यम से नारी का आत्मसम्मान को लिए किया गया संघर्ष दर्शाया है।	छात्रों द्वारा उल्लेखित एवं रेखांकित भाषा में परिभाषित करना। छात्रों में स्वनामसमिता का विकास करना। छात्रों में शुद्ध भाषा को नारों को अभिव्यक्त करने की क्षमता का विकास करना। छात्रों में भाषा एवं उसके साहित्य को प्रति आदरपूर्ण भाव का निर्माण करना। छात्रों में एकता का चेतना विकसित करना। छात्रों में पठन कला को निपुणता का विकास करना। छात्रों में माता-पिता को प्रति सम्मान भाव जागृत करना। छात्रों ने कहानी में निहित भावों, विचारों, नैतिक मूल्यों को ग्रहण करने की क्षमता का विकसित करना। छात्रों में करुणा और भ्रमण शक्ति का विकास करना। छात्रों में भाषा को अधिक से अधिक अध्ययन की प्रेरणा उत्पन्न करना। छात्रों में नागरिक समाज को प्रति सचेत उत्पन्न करना। छात्रों को हिंदी पाठ्य पुस्तकों को माध्यम से मानव उपयोगी ज्ञान करना।

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Subject:- Hindi



Anwarul Uloom College (Autonomous)

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New Malleshpally, Hyderabad-01
570-1910



Name: Mrs. Mallaiika

Class:- 2nd Year (3rd Sem)

LESSON	OBJECTIVES	OUTCOMES
काल्पनिक कवि	काल्पनिक कवि रचनाओं में मूल के प्रति शक्ति भावना, अतिशयोक्तिपूर्ण चित्रण और सुखा मूल के प्रति विरोधी भावना स्पष्ट होते हैं।	छात्रों के दोहों का सही उच्चारण को साथ उदाहरण में प्रस्तुत करना।
1. कबीर की दोहे	प्रस्तुत दोहों में तुलसीदास के भावना जीवन के लिए वीरिपरक, भाविकपरक भाव परक मूलों का महत्व प्रतिपादित किया है।	छात्रों में दोहे की समझ और रचना के दोहे लिखने का प्रयास उत्पन्न करना।
2. तुलसीदास के दोहे	प्रस्तुत रचना में देश के भविष्य के निर्माण में भाग लेने का और देश को प्रति वर्णन होना प्रकाश व्यवस्था देने का सन्देश देने के लिए है।	छात्रों में भावना एवं उसके शक्ति के प्रति महत्वपूर्ण भाव का निर्माण करना।
3. जयसुवर्ण के	प्रस्तुत 'फूल' और 'कौट' कविता में फूल और कौट के द्वारा अपने और बुद्धि दोनों को और संकोच करने हुए जयसुवर्ण रचने का सन्देश दिया गया है।	छात्रों को कविता एवं उसके दोहों को धार में जानकारी देना।
4. फूल और कौट	प्रस्तुत रचना में प्रसाद के संस्कारों द्वारा तो सुख भरा की सादसिक भावना को प्रकाशित कर देते हुए 'भारत' की संज्ञा के आतिशयोक्तिपूर्ण वर्णन किया है।	छात्रों के अपने अनुभवों को रचनाओं की रचनात्मकता से लिखने का प्रयास करना।
5. भारत	प्रस्तुत रचना में एक ही व्यक्ति को अपने जीवन की सादसिकता और उसके द्वारा समाज में अपना अविश्व प्राप्त करने का सन्देश देते हैं।	छात्रों को काल्पनिक कविता के रचना देना।
6. जीवन का अविश्व	प्रस्तुत रचना में सुभाष चंद्र बोस के बचपन की जीवन का स्मरणिकता का है। उन्होंने अपने बचपन की बातों को बढाने पाठ्य को अपने बचपन की मधुर बातों को स्मरण करने पर विवश किया है।	छात्रों में काल्पनिक और रचना शक्ति का विकास करना।
7. मेरा बना बचपन	आदिवासी साहित्य के इतिहास के साथ साधनात्मक सज्जीकरण, सामाजिक, धार्मिक तथा सांस्कृतिक स्थितियों को जानना आवश्यक है।	छात्रों में हिन्दी साहित्य के इतिहास के आदिवासी की भूमि शक्तिता एवं उनकी रचनाओं में प्रकाश करना।
हिन्दी साहित्य का इतिहास	भक्ति काल में सामाजिक- धार्मिक सुधारों की धारा द्वारा समाज विभिन्न तरह से भ्रमण के शक्ति का प्रकाश-प्रसार किया गया है।	छात्रों में साहित्य के अध्ययन के प्रति रुचि का विकास करना।
o आदिवासी- पारिवारिक एवं प्रवृत्तियों	विश्व को लिखने के लिए उस विश्व के बारे में पूर्ण जानकारी लेनी चाहिए।	छात्रों को विश्व, संवाद, सांस्कृतिक, पत्र इत्यादि लिखने की कला प्रकाशित उत्पन्न करने प्रकाश करना।
o साहित्यिक- पारिवारिक एवं प्रवृत्तियों	विश्व भाषा में अतिशयोक्ति विचारों को दूसरी भाषा में वसतान प्रस्तुत करना अनुवाद है।	छात्रों में अनुवाद कला को बढाना देना तथा इसके प्रति रुचि प्रकाशित अनुवादक रचना करना।
o अविश्व		
o अनुवाद		

Head of the Department

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PRINCIPAL

Anwarul Uloom College (Autonomous)
New Malleshpally, Hyderabad-01.

Head of the Department

Head of the Department

COORDINATOR

Internal Quality Assurance Cell
Anwarul Uloom College (Autonomous)
New Malleshpally, Hyderabad.

Subject:- Hindi



Anwarul Uloom College (Autonomous)

Affiliated to Osmania University, Hyderabad
New Malleshpally, Hyderabad-500081
ESTD-1978



Class :- 2nd Year (4th semester)

Name Mrs.Mallaika

LESSON	OBJECTIVES	OUTCOMES
सामान्य विनियम		
1. नीति को पढ़	प्रस्तुत खंड में नीतिगत लेखों के माध्यम से छात्रों को अपने देश की नीति के महत्व का अनुभव दिलाना है।	छात्रों को नीति एवं उसके पक्षों के बारे में जानकारी देना।
2. उद्देश्य को पढ़	प्रस्तुत खंडों में नीति के माध्यम से छात्रों को नीति के माध्यम से अपने जीवन में नीतिगत नीतियों को लागू करने पर ध्यान देना है।	छात्रों को नीति के माध्यम से अपने जीवन में नीतिगत नीतियों को लागू करने पर ध्यान देना।
3. विचारों को पढ़	प्रस्तुत खंडों में विचारों के माध्यम से छात्रों को नीति, नीति, नीतिगत नीतियों का महत्व दिखाना है।	छात्रों को नीति के माध्यम से अपने जीवन में नीतिगत नीतियों को लागू करने पर ध्यान देना।
4. नीतिगत नीति को पढ़	प्रस्तुत खंडों में नीतिगत नीति के माध्यम से छात्रों को नीतिगत नीतियों का महत्व दिखाना है।	छात्रों को नीति के माध्यम से अपने जीवन में नीतिगत नीतियों को लागू करने पर ध्यान देना।
5. नीतिगत नीति को पढ़	प्रस्तुत खंडों में नीतिगत नीति के माध्यम से छात्रों को नीतिगत नीतियों का महत्व दिखाना है।	छात्रों को नीति के माध्यम से अपने जीवन में नीतिगत नीतियों को लागू करने पर ध्यान देना।
6. नीतिगत नीति को पढ़	प्रस्तुत खंडों में नीतिगत नीति के माध्यम से छात्रों को नीतिगत नीतियों का महत्व दिखाना है।	छात्रों को नीति के माध्यम से अपने जीवन में नीतिगत नीतियों को लागू करने पर ध्यान देना।
7. नीतिगत नीति को पढ़	प्रस्तुत खंडों में नीतिगत नीति के माध्यम से छात्रों को नीतिगत नीतियों का महत्व दिखाना है।	छात्रों को नीति के माध्यम से अपने जीवन में नीतिगत नीतियों को लागू करने पर ध्यान देना।
8. नीतिगत नीति को पढ़	प्रस्तुत खंडों में नीतिगत नीति के माध्यम से छात्रों को नीतिगत नीतियों का महत्व दिखाना है।	छात्रों को नीति के माध्यम से अपने जीवन में नीतिगत नीतियों को लागू करने पर ध्यान देना।
हिंदी साहित्य का इतिहास		
1. नीतिगत नीति को पढ़	प्रस्तुत खंडों में नीतिगत नीति के माध्यम से छात्रों को नीतिगत नीतियों का महत्व दिखाना है।	छात्रों को नीति के माध्यम से अपने जीवन में नीतिगत नीतियों को लागू करने पर ध्यान देना।
2. नीतिगत नीति को पढ़	प्रस्तुत खंडों में नीतिगत नीति के माध्यम से छात्रों को नीतिगत नीतियों का महत्व दिखाना है।	छात्रों को नीति के माध्यम से अपने जीवन में नीतिगत नीतियों को लागू करने पर ध्यान देना।

Head of the Department
Hindi
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New Malleshpally, Hyderabad-01.

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New Malleshpally, Hyderabad.

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Anwarul Uloom College (Autonomous)
New Malleshpally, Hyderabad-01.

Subject - Hindi



Anwarul Uloom College (Autonomous)

Affiliated to Osmania University, Hyderabad-1. (As per UGC norms)
New Mallepally, Hyderabad-01, Telangana-501 110



Class:- 3rd Year (5th Sem)

Name: Mohi Fatima

LESSON	OBJECTIVES	OUTCOMES
<p>यूनिट- 1 हिंदी भाषा के विविध रूप</p> <p>1. राजभाषा</p> <p>2. राष्ट्रभाषा</p> <p>3. संघर्ष भाषा</p> <p>4. प्रयोजनमूलक हिंदी</p> <p>5. विषय में हिंदी का महत्व</p>	<p>राजभाषा नीति का उद्देश्य है कि सामान्यतः सरकारी कामकाज में अधिकारिक हिंदी का प्रयोग हो।</p> <p>राष्ट्रभाषा किसी भी राष्ट्र की एकमात्र सुदृढ़ बलाने में उपयोगी होती है।</p> <p>संघर्ष भाषा का मुख्य उद्देश्य एक दूसरे के मध्य अपनी बात को समझाया करना होता है।</p> <p>विभिन्न भाषाओं के मध्य संघर्ष हेतु का कार्य करना।</p> <p>हिंदी को विषय भाषा के रूप में प्रस्तुत करना है।</p>	<p>भाषों में हिंदी भाषा को प्राथमिकता देते हुए अध्ययन करना।</p> <p>भाषों को हिंदी में वार्तालाप करने योग्य बनाना।</p> <p>भाषों में भाषा एवं उसके साहित्य के प्रति जागरूकता बढ़ाना और भाषा का निर्माण करना।</p> <p>भाषों को कार्यालयों में प्रयुक्त होने वाली हिंदी भाषा का समझना और प्रयोग करना।</p> <p>भाषों में भाषा के अर्थिक और सांस्कृतिक महत्व को ध्यान में रखकर अध्ययन करना।</p>
<p>यूनिट- 2 हिंदी साहित्य की विविध विधाओं का परिचय</p> <p>1. कविता</p> <p>2. कथानी</p> <p>3. उपन्यास</p> <p>4. नाटक</p> <p>5. एकांकी</p> <p>6. निवेदन</p> <p>7. आत्मकथा</p> <p>8. संस्मरण</p> <p>9. यात्रा-विवरण</p> <p>10. व्यंग्य</p>	<p>कविता हृदय की वस्तु तथा अनुभूति की अभिव्यक्ति है।</p> <p>आज कथानी का महत्व मान्य है। जीवन की विभिन्न समस्याओं और संवेदनाओं को व्यक्त करना है।</p> <p>जीवन रहस्यों को, जीवन के अनुभवों को व्यक्त करने का कार्य उपन्यास करते हैं।</p> <p>नाटक में जीवन की अनुभूति को प्रत्यक्ष रूप से प्रस्तुत करने के लिए सजीव पात्रों द्वारा एक चरित्र - चित्रण आदि रूप में अभिनेता द्वारा किया जाता है।</p> <p>एकांकी में एक ही अंक, एक ही घटना, मूल भाव, एक ही दृश्य, जीवन का एक ही क्षण, कर्म, उद्देश्य रहता है।</p> <p>निवेदन को लिखने के लिए 12 विधाओं के बारे में पूर्ण जानकारी होनी चाहिए।</p> <p>आत्मकथा का उद्देश्य लेखक द्वारा स्वयं का जीवन चित्रण करना, जीवन परीक्षण करना तथा उसकी भाव-भावनाओं की स्मृतियों को पुनर्जीवित करना होता है।</p> <p>संस्मरण लेखक स्वयं के अनुभव को भावपूर्णता के साथ इस रूप में प्रस्तुत करता है कि उसका शिष्ट उपरिष्ठ हो जाता है।</p> <p>यात्रा विवरण में साहित्यकार अपनी कल्पना या अनुभूति का अलग से कोई रंग नहीं भरता, जिस प्रकार, वस्तु का दृश्य का वर्णन करता है। व्यंग्य का उद्देश्य मनोरंजन करना नहीं अपितु ज्ञान देना है।</p>	<p>भाषों की पढ़ी हुई कविता को भाषा को अपने अंदर ही पाठ्य सत्रों में रोज़ बोलना।</p> <p>भाषों को कथानी में लिखित भाषा में लिखने, जीवन के मूल्यों को व्यक्त करने की क्षमता विकसित करना।</p> <p>भाषों के अपने अनुभव एवं कल्पनाओं को सुझावों के रूप में लिखने का प्रयास करना।</p> <p>नाटक भाषों को एक ही अंक में समाहित करने और समझने की अनुमति देता है।</p> <p>भाषों को एकांकी की प्रमुख घटनाओं को ध्यान में रखकर पढ़ना।</p> <p>भाषों में निवेदन लिखने की कला सुझावों के रूप में व्यक्त करने का प्रयास करना।</p> <p>भाषों में व्यंग्य का सही ढंग से पूर्ण ज्ञान करना।</p> <p>भाषों में एकांकी को विकसित करना।</p> <p>भाषों में साहित्य को प्रति स्त्री विकसित करना।</p> <p>भाषों में सुंदर लेख, सुंदर कथानी का लेखना और पढ़ना।</p> <p>भाषों में व्यंग्य का विकास।</p>
<p>यूनिट- 3 जनसंसार के माध्यम</p> <p>जनसंसार का अर्थ, परिभाषा एवं स्वरूप</p> <p>जनसंसार की प्रमुख विशेषताएँ</p>	<p>यदि भी जनसंसार माध्यम - साधे वृद्ध लिखित हो, कथित हो या फिर श्रव्य-दृश्य - सभी का उद्देश्य है सुझावों को उनके ओरों से लेकर सामान्यता तक पहुँचाना।</p>	<p>जनसंसार के माध्यम को समझना।</p>

Head of the Department
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New Mallepally, Hyderabad-01.

(Signature)

PRINCIPAL

Anwarul Uloom College (Autonomous)
New Mallepally, Hyderabad-01.

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Anwarul Uloom College (Autonomous)
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Subject :- Hindi



Anwarul Uloom College (Autonomous)

Affiliated to Osmania University, Accredited A Grade by NAAC
New Malleshpally, Hyderabad-01
ESTD-1910



Class:- 3rd Year(6th Semester)

Lesson	OBJECTIVES	OL
unit- 1. अनुवाद	किसी भाषा में कही या लिखी गई बात का दूसरी भाषा में सार्थक परिवर्तन अनुवाद है।	छात्रों में अनुवाद कार्य को अनुवादक तैयार करना।
unit - 2. पत्रकारिता	पत्रकारिता का उद्देश्य किसी भी व्यवस्था के गुण - दोषों को व्यापक आधार पर प्रचारित करना है। जिसमें समाचारों का एकत्रीकरण, लिखना, जानकारी एकत्रित करके पढ़ा-लिखना, संपादित करना और सत्यक प्रस्तुतीकरण आदि सम्मिलित हैं।	जनसंचार के साधनों के अ उपयोग करना।
unit -3. हिंदी साहित्य के विविध आयाम		
1. हिंदी में स्त्रीवादी साहित्य	स्त्रीवाद का लक्ष्य आत्म संतोष या आनंद देना नहीं बल्कि उसका लक्ष्य है न्याय पाना।	छात्रों में भाषा और साहित्य
2. हिंदी में दलित साहित्य	दलित साहित्य का मूल उद्देश्य नये मानवीय एवं समतामूलक समाज का निर्माण करना है।	छात्रों में भाषा एवं उसके र निर्माण करना।
3. हिंदी में आदिवासी साहित्य	आदिवासी साहित्य आदिवासी समुदाय की अस्मिता, संस्कृति, तथा संघर्ष के लिए नवीन चेतना जागृत करता है।	छात्रों में साहित्य अध्ययन
4. हिंदी में अल्पसंख्यक साहित्य	अल्पसंख्यक- वर्ग की आंतरिक वास्तविकता एवं अंतर्विरोध को प्रामाणिकता से अभिव्यक्त किया है।	छात्रों में अपने विचारों को करने को रुचि का विकास

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Anwarul Uloom Degree College
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New Mallepally Hyderabad.5000001. T.S India

Affiliated to Osmania University

Department of Telugu.

2024-25 .Departmental

Programme Objectives and Outcomes.

(పాఠ్యాంశాల ఉద్దేశ్యాలు మరియు సాధించినవి)

Degree 1st year (డిగ్రీ మొదటి సంవత్సరం)

Programme Objectives

(పాఠ్యాంశాల ఆధారంగా ఉద్దేశ్యాలు)

1. ప్రాచీన సాహిత్యంలో భాగంగా శకుంతలోపాఖ్యానము, గొడగూచి కథ, సంవర్కుడి తపస్సు, గజేంద్రమోక్షము, హనుమత్ సందేశము, సుభాషితములు అనే పాఠ్యాంశాల ఆధారంగా నాటి సాహిత్య విలువలు తెలుసుకుంటారు.
2. ఆధునిక కవిత్వంలో కాసులు రాజు కవి గంగిరెద్దు జయభేరి అంతర్నాథము ప్రపంచ పదులు అల్వీదా పాఠ్యాంశాల ఆధారంగా ఆధునిక కవిత పోకడలను మరియు కవుల గురించి తెలుసుకుంటారు.
3. వచన విభాగంలో యుగాంతము వెంకన్న మామిడిపండు మా ఊరు పోయింది ఇది ఒకే కళ పేర్లు గుర్తుంచుకోవడం అనే పాఠ్యాంశాల ఆధారంగా కథానిక ప్రక్రియను వ్యాస ప్రక్రియను గురించి తెలుసుకుంటారు.
4. రుద్రమదేవి నవల ఉపవాచకంలో చరిత్ర గురించి తెలుగు వారి సంస్కృతి గురించి తెలుసుకుంటారు.
5. భాషాభాగాలలో పర్యాయపదాలు నానార్థాలు భాగంగా సంధులు సమాసాలు తెలుగు వాక్యము గురించి అధ్యయనం చేసి భాష నిర్మాణాన్ని తెలుసుకోవడం ఇక్కడ ఉద్దేశం గా ఉన్నది.



Out comes. (సాధించిన ఫలితాలు)

CHAIRMAN AND HEAD,
BOARD OF STUDIES,
Department of Telugu,

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1. నన్నయ పాల్కురికి సోమనాథుడు కోరవి గోపరాజు పోతన మల్ల ఏనుగు లక్ష్మణ కవి మొదలైన కవుల కవిత శైలులను మరియు నాటి భాష నిర్మాణాన్ని తెలుసుకుంటారు.
2. ఆధునిక కవిత్వంలో గురజాడ ప్రవేశపెట్టిన నూతన సాహిత్య పోకడలను అర్థం చేసుకుంటారు. జాషువా విశ్వ మానవ తత్వాన్ని గురించి అవగాహన చేసుకుంటారు. కృష్ణమాచార్యులు వారి సాహితీ ప్రస్థానం గురించి, సురవరం ప్రతాపరెడ్డి సాహిత్య సేవ గురించి, నారాయణరెడ్డి మానవత్వం గురించి తెలుసుకుంటారు.
3. వచన విభాగం చదవడం వలన వచన ప్రక్రియలైన కథానిక శిల్ప నిర్మాణాన్ని గురించి, పరిణామక్రమాన్ని కథానిక లో ఉండే మెలకువలను వ్యాసం రాసే విధానాన్ని తెలుసుకుంటారు. తెలంగాణకు చెందిన స్త్రీ రచయిత్రుల గురించి తెలుసుకుంటారు.
4. ఉపవాచకం రుద్రమదేవి చదవడం వలన తెలుగువారి పౌరుషము పాలనా సామర్థ్యం అవగతం అవుతుంది. ప్రజల కోసం ఆనాడు ముఖ్యంగా కాకతీయ ప్రభులు చేసిన సేవలు ఆనాటి శిల్ప సంపద గురించి తెలుసుకుంటారు.
5. భాష యొక్క నిర్మాణాన్ని తెలుసుకోవాలంటే భాషా పరిజ్ఞానము పెరగాలంటే ఏ భాషకైనా వ్యాకరణం తెలిసి ఉండాలి. పదాల మధ్య కలయికను కొత్త పదాల ఏర్పాటును సందులు సమాసాలు ద్వారా తెలుసుకుంటారు. మరియు పదాలను జాతీయాలను తెలుసుకోవడం వల్ల భాషా సంపద పెరుగుతుంది



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Programme Objectives and Outcomes.

(పాఠ్యాంశాల ఉద్దేశ్యాలు మరియు సాధించినవి)

Degree 2nd year (డీగ్రీ మొదటి సంవత్సరం)


Programme Objectives


(పాఠ్యాంశాల ఆధారంగా ఉద్దేశ్యాలు)

- 1.ప్రాచీన సాహిత్యంలో భాగంగా నారద గానమాత్సర్యం , వాగ్దాన భంగం , నరసింహ శతకం అనే పాఠ్యాంశాల ఆధారంగా నటి సాహిత్య విలువలు తెలుసుకుంటారు .
- 2.ఆధునిక కవిత్వంలో నరుడనేను, నరుడనేను, ఆర్తగీతం, దేవరకొండదుర్గం,రైతుప్రశస్తి,గురుదక్షిణ,గుడిసెలు కాలిపోతున్న పాఠ్యాంశాల ఆధారంగా ఆధునిక కవిత పోకడలను మరియు కవుల గురించి తెలుసుకుంటారు.
- 3.వచన విగభంలో అర్ధరాత్రి అరుణోదయం,సి.పి.బ్రౌన్ సాహిత్య సేవ మన గ్రామ నామాలు, నివురు తొలగిన నిప్పు,కొండమల్లెలు , ఇది ఒకే కళ పేర్లు గుర్తుంచుకోవడం అనే పాఠ్యాంశాల ఆధారంగా కథానిక ప్రక్రియను వ్యాస ప్రక్రియ గురించి తెలుసుకుంటారు.
- 4.భాషా భాగాలలో ఛందస్సు, అలంకారాలు భాగంగా విద్యార్థులు పద్య లక్షణాలు, పద్య అలంకారాల ఉద్దేశంగా ఉన్నది.

Out comes. (సాధించిన ఫలితాలు)

- 1.పింగళి సూరన, అసూరి మరిగంటి వెంకట నరసింహచార్యులు, ధర్మపురి శేషప్ప,కాళోజి , దేవరకొండ బాలగంగాధర్ తిలక్, డా|| ముకురాల రామారెడ్డి, దాశరథి రంగాచార్య,పోల్కంపల్లి శాంతాదేవి,ఇల్లందుల సరస్వతీదేవి, వానమామలై జగన్నాథాచార్యులు, అంబటి లక్ష్మీనరసింహరాజు,డా|| బోయిభీమన్న మొదలైన కవుల కవితా శైలులను మరియు నాటి భాష నిర్మాణాన్ని తెలుసుకుంటారు.



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2.ఆధునిక కవిత్వంలో కాళోజీ ప్రవేశపెట్టిన మనషి యొక్క జీవిత విశేషాలను అర్థం చేసుకుంటారు. దాశరథి రంగాచార్య రచించిన దేశంలో స్వాతంత్ర్యం వచన రోజుల అనుభూతులను అవగాహన చేసుకుంటారు. అంబటిగారి మహాభారత విలువలు గురించి తెలుసుకుంటారు.

3.వచన విభాగం చదవడం వలన వచన ప్రక్రియలైన కథానిక శిల్పనిర్మాణాన్ని గురించి, పరిణామక్రమాన్ని కథానికలో ఉండే మెళకువలను వ్యాసం రాసి విధానాన్ని తెలుసుకుంటారు. తెలంగాణకు చెందిన కవి రచయితల గురించి తెలుసుకుంటారు.

4.భాషా యొక్క నిర్మాణాన్ని తెలుసుకోవాలంటే భాషా పరిజ్ఞానము పెరగాలంటే ఏ భాషకైనా వ్యాకరణం తెలిసి ఉండాలి. పద్యాలక్షణాలు పద్యంకూర్పు, పద్యాల అలంకారాలు, పద్యం అందం, పద్యం ఏలా పాడాలి అనే విషయాలు తెలుసుకుంటారు.


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Programme Objectives and Outcomes.

(పాఠ్యాంశాల ఉద్దేశ్యాలు మరియు సాధించినవి)

Degree 3rd year (డిగ్రీ మొదటి సంవత్సరం)

Programme Objectives

(పాఠ్యాంశాల ఆధారంగా ఉద్దేశ్యాలు)

1. కవితా ప్రక్రియల ఆధారం పద్యం, పాట, వచనకవితా, లఘు కవితారూపాలు, ఉర్దూకవితారూపాలు, సాహిత్యప్రక్రియాల ఆధారంగా నాటకం, నవల, కథానిక, జీవిత చరిత్ర, ఉపన్యాసకల అనే పాఠ్యాంశాలు ఆధారంగా నాటి కవితా ప్రక్రియ గురించి, సాహిత్య ప్రక్రియ గురించి తెలుసుకుంటారు.

2. తెలుగు వ్యాసంలో, వ్యాసం, వ్యాసపరిణామం, వ్యాస రచనా పద్ధతులు, వ్యాసంలో వస్తువైవిధ్యం, వ్యాసరచనలో భాషా ప్రయోగాలు జర్నలిజంలో మౌలికంశాలో వార్త, వార్త నిర్మాణం, వార్త కథనాలు, ఇంటర్వ్యూ, అనువాదం. ఆధునిక సాహిత్యంలో వ్యాసం మొలుకవ లు, జర్నలిజంలో వార్తగాల గురించి తెలుసుకుంటారు.

3. వచన సాహిత్యంలో అధ్యయన సంస్కృతి, సాహిత్య అధ్యయనం ప్రయోజనాలు, ముందుమాట, పుస్తక సమీక్ష, జానాపదం ప్రోజెక్టుపరిచయంలో, ప్రోజెక్టు, అధ్యయనం పరికల్పన, నివేదిక. ఆధారంగా విద్యార్థులు. అధ్యయనం ఏలా చేయాలి అనే అంశం గురించి తెలుసుకుంటారు

Out comes. (సాధించిన ఫలితాలు)

1. పద్యం అనే పదాన్ని రచించిన కవులు నన్నయ, శ్రీ శ్రీ, దాశరథి, చిలకమర్తి, నూతన తెలంగాణ కవుల రచయిత శైలులను మరియు తెలంగాణ భాషా నిర్మాణాన్ని తెలుసుకుంటారు నాటకం, నవల యొక్క విశేషాలను గురించి తెలుసుకుంటారు .

2. తెలుగు వ్యాసంలో వ్యాసం ఎలా రాయాలి వ్యాస నిర్మాణంలో తెలుగు భాషయొక్క గొప్పతనం, అందులో మెళుకువలు నేర్చుకుంటారు కొత్తగా ప్రవేశ పెట్టిన పాఠ్యశాస్త్రం జర్నలిజంలో విద్యార్థులు సమస్యపట్ల

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వార్తాసందేశం ద్వారా ప్రజలకు ఎలా చేరవేలి అనే అంశాన్ని తెలుసుకుంటారు అలాగే ఇంటర్వ్యూ ద్వారా ఉన్నతవిలువలు నేర్చు కుంటారు


2.ఆధునిక కవిత్వంలో కాళోజి ప్రవేశపెట్టిన మనషి యొక్క జీవిత విశేషాలను అర్థం చేసుకుంటారు. దాశరథి రంగాచార్య రచించిన దేశంలో స్వాతంత్ర్యం వచన రోజుల అనుభూతులను అవగాహన చేసుకుంటారు. అంబటిగారి మహాభారత విలువలు గురించి తెలుసుకుంటారు.


3.వచన విభాగం చదవడం వలన వచన ప్రక్రియలైన కథానిక శిల్పనిర్మాణాన్ని గురించి, పరిణామక్రమాన్ని కథానికలో ఉండే మెళకువలను వ్యాసం రాసే విధానాన్ని తెలుసుకుంటారు. తెలంగాణకు చెందిన కవి రచయితల గురించి తెలుసుకుంటారు.

4.భాషా యొక్క నిర్మాణాన్ని తెలుసుకోవాలంటే భాషా పరిజ్ఞానము పెరగాలంటే ఏ భాషకైనా వ్యాకరణం తెలిసి ఉండాలి. పద్యాలక్షణాలు పద్యంకూర్పు, పద్యాల అలంకారాలు,పద్యం అందం,పద్యం ఏలా పాడాలి అనే విషయాలు తెలుసుకుంటారు.

5.రచనాసాహిత్యంలో విద్యార్థులు అధ్యయన సంస్కృతి పట్ల భాషా సాహిత్యంతో పాటు ఒకవిషయాన్ని క్షుణ్ణంగా ఎలా తెలుసుకోవాలి,దానిని ఎలాప్రతిపాదించాలి మరియు నివేదిక సమర్పించాలి అనే విషయాన్నీ తెలుసుకుంటారు.దీనిద్వారా భాషలో ఔనత్వాన్ని మరియు విద్యారథులో ఆలోచించే సామర్థ్యాన్ని పెంచుకుంటారు.


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Department of Telugu,
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Department of Economics Programme Outcomes (PO)


2024 – 2025

Bachelor of Arts (B.A EPP)

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	Students were equipped with the knowledge required to qualify for various competitive examinations like planning and economic service, finance and account service, banking and insurance, real estate dealings, etc. Higher education prospects were also positive.
PO 2	Problem Analysis	The undergraduate Economics programme helped students understand the functioning of domestic and global economies and develop the necessary and portable skills to perform Economic analysis for public and private sector positions and graduate studies in related fields.
PO 3	Sensitive to environmental sustainability issues	The graduate students also know about the special bond between the environment, Economy and sustainable development.
PO 4	Ethics and Communication	Development of entrepreneurial mindset, leadership skills and emotional intelligence to face the evolving marketplace
PO 5	Individuality and Teamwork	To function efficiently as an individual and team to share and shoulder responsibilities.
PO 6	Competencies for Employment and Research	Instil professional competencies and values that aid in rapid professional growth and be in positions of responsibility and governance that help serve the betterment of society.
PO 7	Cultural and global Engagements	Cultural and Global Engagements Principle of Solidarity and Kinship – integrate diverse perspectives of commerce, business, economic, social and cultural leanings that link local and global realities.
PO 8	Community Engagement	Sharing privileges, engaging in critical debate and using talents for community gains


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Department of Economics

2024-2025

Programme: B.A EPP

Programme-Specific Outcomes for Economics

S. No	Students completing B. A in economics will be able to
PSO 1	The basic concept of Economics is how markets organize core economic activities such as production, distribution, consumption and growth of productive resources.
PSO 2	The determinants of Macro Economic conditions (national output, employment and inflation), causes of business cycles, and interactions of monetary and fiscal policy.
PSO 3	To apply Economic theories and methodologies in analyzing economic issues in various sub-fields of applied microeconomics and international economics
PSO 4	Economic analysis will be conducted using equations and graphs. Assess the role of domestic and international institutions and norms in shaping economies.
PSO 5	Students can explain, graph, and analyze key economics models.
PSO 6	Analyze the economics and institutional arrangements of specific regions, countries, organizations, localities, industries or firms.
PSO 7	Students are expected to be able to deduce reasonable predictions about possible economic outcomes based on economic conditions and economic theories.
PSO 8	Students are expected to understand how to collect and analyze data, use empirical evidence to evaluate the validity of an economic argument, use statistical methodology, interpret statistical results, and conduct appropriate statistical data analysis.

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Course Outcomes (CO's): B A EPP (ECONOMICS)

2024 -2025

Semester I


Course Title: B.A EPP MICROECONOMICS


S.No	Students will be able to
CO 1	Assess and evaluate the factors, internally and externally, through which we understand consumer behaviour.
CO 2	Apply relevant consumer behaviour theories to understand the impact of marketing strategies.
CO 3	Develop critical and reflexive understandings of the nature of consumption, markets and culture. Appreciate the complexity of consumer behaviour.
CO 4	Gaining knowledge about managing the production process.
CO 5	Better understanding of modern production techniques.

Semester II

Course Title: B.A EPP MACROECONOMICS

S.No	Students will be able to
CO 1	To integrate the role of fiscal and monetary policies in regulating the economy
CO 2	Students will be able to relate individual concepts with aggregate concepts, i.e., merge micro and macro.
CO 3	To analyze the income determination through classical and Keynesian economics and Understand the relationship between investment and savings, demonstrate investment multiplier.
CO 4	To answer the questions related to the equilibrium level of income and employment {output}. Students will be able to explain the meaning of consumption function, the relationship between APC and MPC, consumption and income, the concept of multiplier


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CO 5	Students will be able to define different types of inflation and compare inflation measures.
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Semester III

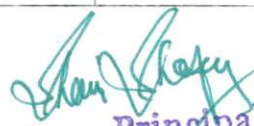
Course Title: Statistics For Economics

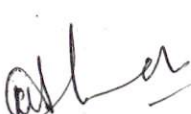
S.No	Students will be able to
CO 1	Describe and discuss the key terminology, concepts, tools and techniques used in business statistical analysis.
CO 2	Critically evaluate the underlying assumptions of analysis tools. Students can recognize and apply the concepts of mean, median, and mode in real-life problems.
CO 3	Understand and critically discuss the issues surrounding sampling and significance.
CO 4	Discuss critically the uses and limitations of statistics TO develop the student's ability to deal with numerical and quantitative issues in business.
CO 5	Understand the fundamental statistic concepts and some of their application and organize and present data, know different methods of finding average, its calculation, merits and demerits, and identify the appropriate regression and correlation analysis to an economical data set.

Semester IV

Course Title: Indian Economy

S.No	Students will be able to
CO 1	Define the economic growth and development concept and answer questions related to the topics.
CO 2	They will understand the importance of empowering women. They will practically understand the state's role in the development process.
CO 3	To know the Merits of the Balanced Growth Strategy. Know the demerits of Balanced Growth Strategy.


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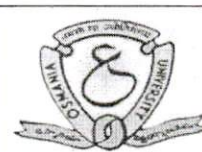


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CO 4	Develop ideas of the basic characteristics of the Indian economy and its potential for natural resources.
CO 5	To define different types of planning, the need for planning and the trends in the planning commission of India.

Semester V

Course Title: Development Economics

S.No	Students will be able to
CO 1	Define the economic growth and development concept and answer questions related to the topics.
CO 2	They will practically understand the state's role in the development process. It enables the students to appreciate that preserving the health & and welfare of the family's economic stability ensures good prospects for the younger generation
CO 3	Students got accurate information about the effect of family size changes and the national population on the individual.
CO 4	The students came to know the importance of innovation in the present market.
CO 5	Students became aware of most of the exciting and logical facts of laws and also about the changes in the behaviour of human beings.

Semester VI

Course Title: International Economics

S.No	Students will be able to
CO 1	It enables the students to understand and defend the economic importance of international trade.
CO 2	Students should be able to identify and define the following vocabulary terms: tariffs, trade barriers, globalization, and World Trade Organization.
CO 3	To familiarize students with the theoretical foundation of trade.

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CO 4	This realization prepares them to objectively describe what a trade deficit means, helping to prepare them for current events discussions that consider the questions of what is good. Moreover, what is wrong? About a deficit or surplus in our balance of payments account
CO 5	Students will be able to apply functions, provisions of the international trade system and functions to facilitate global trade.

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**POLITICAL SCIENCE
BA [EPP] & [HPML] 2024-25**

PROGRAMME OBJECTIVE (GENERAL)


1. It makes the students learn their role & responsibilities
2. The study of Political Science is gaining more significance as the society and political system grows more and more complex.
3. Allows better understanding of political conditions and trends and functioning of the government across the globe.
4. The objective is to provide knowledge related to culture & civilization & development of Social behavior.
5. The department of political science is one of the oldest departments of our college.

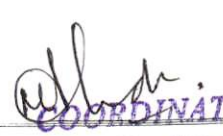
PROGRAMME OUTCOMES (GENERAL)

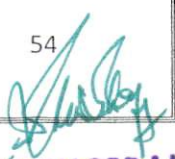
- PO -1. Get familiar with the origin, evolution & core value of the subject which can be put to use in their day today life.
- PO -2. Students will learn their role & responsibilities in the society & can take active part in the existing political system.
- PO -3. Students will be exposed to the International politics & political issues by a course study of I.R.
- PO -4. The course offers a number of job oriented courses which ensure the students to their career as a lawyer, collector, political leader, teacher lecturer etc.
- PO -5. Students will be able to discuss & debate the changing trends of Indian political system.

PROGRAMME SPECIFIC OUTCOMES)

1. Serve as a politician
2. Makes students to go for higher studies and take up research.
3. Serve as a political party member, political adviser & a good citizen of India.
4. Work in elections & political as well as administrative system.
5. This is the most appropriate combination for the public service examination.


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Course Objective- Paper- I UNDERSTANDING POLITICAL THEORY


1. Students are able to analyze political theory.
2. Understand empirical & Normative political theories, system analysis and structural functionalism
3. Students will analyze the basic concept liberty, equality justice under the light of various approaches.
4. Students will understand the theories of state (origin, nature, function), also evaluate social contract, evolutionary & divine origin theory
5. Students will undertake research to understand the difference between power & authority.

Course Objective- Paper- II WESTERN POLITICAL THOUGHT

1. Students will analyze the theory of origin of state by Thomas Hobbes, Locke, and Rousseau.
2. Students will examine Hobbes & Locke ideas on state of nature & human nature.
3. Students will understand the thoughts of 20th century by G W F Hegel to Karl Marx.
4. Students will critically the concept of utilitarianism and its principles.
5. Students will study Hegel's views on dialectics & tenants of Marxism i.e. historical materialism, class war, surplus value etc.

Course Objective- Paper- III INDIAN POLITICAL THOUGHT

1. Students will evaluate the ancient Hindu Social Order.
2. Students will assess the core Gandhian philosophical ideas as a part of Indian Nationalist Political Thought.
3. Modern Indian thought will help the students to understand various concepts by Nehru, Ambedkar & J.P Narayan.
4. Students will analyze socio- religious reform movement's of 19th century to eradicate the evils of Indian society & ideology of the reformers.
5. Students will come to know about the contemporary conditions of the ancient Indian society through the writings of Kautilya, Manu & Buddha etc.


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Course Objective- Paper- IV CONSTITUTION AND POLITICS OF INDIA

1. Students will analyze the emergence of National Movement & inspire by the struggle for freedom.
1. Students will assess the status of fundamental rights of Indian citizens.
2. Students will understand the significance of Indian Constitution & role of Constituent Assembly.
2. Students will learn about the important political institutions of Union government and State government.
3. Students will also analyze the significance & composition of Supreme court and High Court
4. Students will develop the deeper understanding of services of the local self institutions in India.
5. They will assess the nature of Indian Federalism with focus on union – state relations.

Course Objective- Paper- V INTERNATIONAL RELATIONS

1. Students will understand the meaning of international organizations with special reference to UNO and its structure.
2. Students will evaluate the consequences of world wars.
3. Students will analyse the concept of polarity.
4. Students understand the concept of region, regionalism, and regional organizations like SAARC, ASEAN, and BRICS.
5. They will understand the history & evolution of Non-Alignment Movement.

Course Objective- Paper- VI GLOBAL POLITICS

1. They will analyze the features & determinants of India's Foreign Policy.
2. Students will learn about the working of international financial institutions.
3. Students will acquire knowledge about globalization & its role in international relations.
4. Students will evaluate concepts like human rights, environment & terrorism.
5. Students will analyze the concept of Arm race, Arm control & disarmament.

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Course Outcome- Paper- I UNDERSTANDING POLITICAL THEORY


1. Students acquired knowledge about political theory, political philosophy and political thought.
2. Students came to know about various meanings of equality with reference to Liberal, Marxist & Feminist approach.
3. Students were able to analyze various ideologies associated with the discipline of political science like liberalism, Nationalism, Multiculturalism & Marxism.
4. Students analyzed the importance of political institutions (Executive, Legislature, and Judiciary).
5. Students evaluated the Indian party system in development of & looking at the ideology of dominant national parties

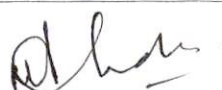
Course Outcome- Paper- II WESTERN POLITICAL THOUGHT

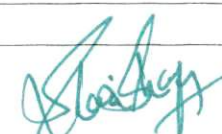
1. Students understood the importance of the Greek political thoughts.
2. They were able to evaluate the relevance of Plato's ideas on justice, education, communism & the most important theory of ideal state.
3. They learnt the ancient thoughts of Aristotle on revolution, slavery & forms of government.
4. Students understood the medieval thoughts of thinkers like Aquinas & Machiavelli.
5. They studied theories of law, views on church-State & State craft.

Course Outcome- Paper- III INDIAN POLITICAL THOUGHT

1. Students evaluated the ancient Hindu Social Order.
2. Students assessed the core Gandhian philosophical ideas as a part of Indian Nationalist Political Thought.
3. Modern Indian thought helped the students to understand various concepts by Nehru, Ambedkar & J.P Narayan.
4. Students analyzed socio- religious reform movement's of 19th century to eradicate the evils of Indian society & ideology of the reformers.
5. Students came to know about the contemporary conditions of the ancient Indian society through the writings of Kautilya, Manu & Buddha etc.


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Course Outcome- Paper- IV CONSTITUTION AND POLITICS OF INDIA


1. Students examined the agitations took place in 1969, 1972 & 2001.
2. Students developed the deeper understanding of services of the local self institutions in India.
3. They assessed the nature of Indian Federalism with focus on union – state relations.
4. Students understood the historical process, agencies & social forces that contributed to the formation of Telangana State.
5. Students also analyzed the significance & composition of High Court.


Course Outcome- Paper- V INTERNATIONAL RELATIONS


1. Students understood the strategic importance of cold war in international relation.
2. Students learned about the problem of third world countries.
3. Students acquired the knowledge of power politics in international relations
4. Students understood the concept of Internationalism, regionalism, international and regional organizations like UNO, SAARC, ASEAN, BRICS
5. Students recognized the meaning of international organizations with special reference to UNO, its structure.

Course Outcome- Paper- VI GLOBAL POLITICS

1. Student comprehended the functions of all Financial Institutions of the world (World Bank, IMF, WTO, IBRD).
2. They evaluated the concept of Globalization with different dimensions.
3. Students learnt the International economic institutions, their origin & composition.
4. Students analyzed the concept of Arm race, Arm control & disarmament.
5. Students understood the emerging concepts of human rights, environment & terrorism.


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Cos, Pos, pso

Department: PUBLIC ADMINISTRATION

Year: 2024-25-Programme: BA [EPP]

Programme Objective (General)

1. The department of public administration teaches students about social, political, economic & cultural issues of the times.
2. It endeavors in understanding the "PUBLIC" in a globalized world.
3. It emphasizes on concept & administrative theory.
4. Students learn the new changing issues of governance & administration

Programme Outcomes (General)

- PO -1. The dept focus to introduce and develop knowledge of institutions, organizations, practices, concepts and theories.
- PO -2. Allows better understanding of administrative conditions and trends and functioning of the government across the globe.
- PO -3. The objective is to provide knowledge related to culture & civilization & development of social behavior.
- PO -4. Improves thinking skills & prepare them to participate competently.
- PO-5. Programme provides the base to be the responsible Citizen.

Programme Specific Outcomes

1. Serve as a politician
2. Work as a teacher in colleges, schools & high schools.
3. Serve as a political party member, political adviser & a good citizen of India.
4. Work in elections & political as well as administrative system.
5. Can serve in various departments like forest and archaeological departments as conservator.

Course Objective: Paper-I BASICS OF PUBLIC ADMINISTRATION

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Department of Arts & Social Science
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5. Students will analyze the role and powers of Union public service commission.

Course Objective-Paper-IV STATE ADMINISTRATION

1. Students will analyze the administrative history of Telangana.
2. Students will be able to analyze the state level political executive i.e. Governor and Chief Minister.
3. Students will understand the discern that connects and disconnects between structure, purpose, process and results in Indian administration.
4. Students will assess the nature of local governance and district administration in Telangana.
5. Students will understand the functioning of state secretariat and various directorates

Course Objective-Paper-V MANAGEMENT OF RESOURCE-Human Resource Management

1. Students will understand the meaning, nature and scope of Human resource management.
2. Students will understand importance of Human resource management.
3. Students will demonstrate the understanding of human resource strategy and planning.
4. Students will be able to understand the changing paradigms of resource management.
5. Students will analyze the process of recruitment, selection, appointment and promotion

Course Objective-Paper- VI FINANCIAL & MATERIAL MANAGEMAEENT

1. Students will understand the meaning, nature and scope of financial & material management.
2. Students will understand the idea of management by objectives.
3. Students will critically evaluate the execution of budget...
4. Students will get te knowledge of financial administration
5. Students will get the knowledge of material management

Course Outcome-Paper-I BASICS OF PUBLIC ADMINISTRATION

5. Students will analyze the role and powers of Union public service commission.

Course Objective-Paper-IV STATE ADMINISTRATION

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1. Students will understand how public administration is related to economics and psychology.
2. Students are exposed to different approaches of Kautilya.
3. Students study the approaches given by Taylor, Henry Fayol, Weber etc.
4. Students will evaluate the different approaches such as Oriental, classical, scientific and bureaucratic approaches.
5. Students will analyze the idea of various thinkers and the concepts of social psychology approaches.

Course Outcome-Paper-II CONCEPTS AND PRINCIPLES OF PUBLIC ADMINISTRATION



1. Students will critically evaluate the principle of line and staff agencies, leadership and communication.
2. Students will analyze the idea of New Public administration.
3. Students will be able to understand minnow brook conference I, II, III.
4. Students will evaluate the concept of new public management.
5. Students will critically evaluate the role of public services in emergence and development of new Telangana state.

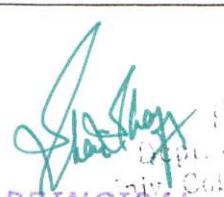
Course Outcome-Paper- III INDIAN ADMINISTRATION-UNION GOVT

6. Students will understand historical evolution and socio-economic, political, cultural and global context of Indian administration.
7. Students will be able to describe the post independence Indian administration.
8. Students will be able to understand the transformative role of Indian administration.
9. Students will analyze the role of central level political executive i.e. President, Prime Minister and Council of Ministers.
10. Students will understand the working of central secretariat.

Course Outcome-Paper-IV STATE ADMINISTRATION

1. Students will understand the Indian administration's role as the main instrument of state to achieve its developmental goals.
2. Students will understand the significance of administrative reforms and its need
3. Students develop a deeper understanding of second administrative reforms


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Commission and its recommendations.
4. Students will understand the concept of e-government.
5. Students will analyze the importance of values and ethics in administration
Course Outcome-Paper-V MANAGEMENT OF RESOURCE - HUMAN RESOURCE MGMT
1. Students will understand the components of pay, principles of pay and pay commissions.
2. Students will understand the concept of performance appraisal, reward and incentives management
3. Students will analyze the idea of human resource development.
4. Students will critically examine the concept of training its objectives, types and evaluation.
5. Students will analyze the institutional capacity building strategies and programmes.
Course Outcome-Paper- VI FINANCIAL & MATERIAL MGMT
1. Students will analyze the organization of finance ministry
2. Students will evaluate the importance of center-state financial relations.
3. Students will examine parliamentary financial committees.
4. Students will understand the objective, introduction and application of financial management techniques. 5. Students will demonstrate knowledge of the problems in application of E- material techniques.


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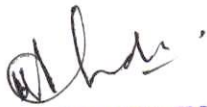

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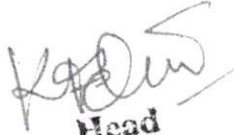

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Department of HISTORY
Programme Outcomes (PO)
2024– 2025

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	The B.A graduates will be acquainted with the Social, Economical, Historical, Geographical, Political, Ideological, and Philosophical tradition and thinking.
PO 2	Problem Analysis	The B.A programme enables the students to acquire knowledge with human values, framing the base to deal with various problems in life with courage and humanity.
PO 3	Sensitive to environmental sustainability issues	The graduate students also possess knowledge about a special bond between environment History and sustainable development.
PO 4	Ethics and Communication	The students will be ignited enough to think and act over for the solution for the various issues prevailed in the human life to make this world better than ever.
PO 5	Individuality and Teamwork	To function efficiently as an individual and as a team to share and shoulder responsibilities.
PO 6	Competencies for Employment and Research	Instil professional competencies and values that aid in rapid professional growth and to be in positions of responsibility and governance that help serve for the betterment of society.
PO 7	Cultural and global Engagements	Principle of Solidarity and Kinship – Understand the present existing social, political, religious conditions of the people.
PO 8	Community Engagement	Sharing privileges, engaging in critical debate and using talents for community gains.


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Department: **HISTORY**

Programme: **BA**

Programme Objective (General)
1. Students will be able to demonstrate broad knowledge of Historical events and periods and their significance
2. Students will be able to explain and critique the Historical schools of thought that have shaped scholarly understanding of their fields of study
3. Students will be able to formulate historical arguments and communicate those arguments in clear and persuasive prose.
4. Students will be able to demonstrate a breadth of training across Historical time and space.
5. Students will be able to demonstrate a Historical awareness of the diversity of the Human experience across time and space.
(Programme Outcomes) (General)
PO- 1. Students will be able to demonstrate knowledge of the Chronology, narrative major events, personalities and turning points of the History of India.
PO -2. Provide multi-causal explanation of major Historical developments based on a centralized analysis of Modern World History
PO- 3. The B A graduates will be acquainted with the Social, Economical, Historical, Geographical, Ideological and Philosophical traditions and thinking.
PO- 4. The Program also improves the graduates to appear for various competitive examinations or choose the Post Graduate Programme of their choice.
PO -5. Programme provides the base to be the responsible Citizen.
(Programme Specific Outcomes)
PSO-1. Understand background of our religion, customs institutions, administration and so on.



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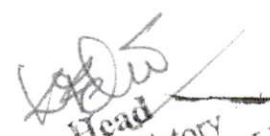

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PSO -2. Understand the present existing social, political, religious and economic conditions of the people.
PSO -3. Analyze relationship between the past and the present is lively presented in the history.
PSO -4. Develop practical skills helpful in the study and understanding of historical events. They: (a) Draw historical maps, charts, diagrams etc. (b) Prepare historical models, tools etc.
PSO -5. Develop interests in the study of history and activities relating to history. They: (a) Collect ancient arts, old coins and other historical material. (b) Participate in historical drama and historical occasions; (c) Visit places of historical interests, archaeological sites, museums and archives; (d) Read historical documents, maps, charts etc. (e) Play active roles in activities of the historical organizations and associations.
Course Objective- Paper- I HISTORY OF INDIA {from earliest times to 700 CE}
1. Students will be able to explain the Socio – Economic, Cultural and Political background, nature and scope of History.
2. Students will be able to demonstrate by analyzing and evaluating Historical information from multiple sources of Ancient History.
3. Students will be able to identify the gaps in Historical and Archeological evidence.
4. Students will be able to identify the Geographical features and sites of Indus Valley.
5. Students will be able to describe the three great Emperors of Mauryan Empire.

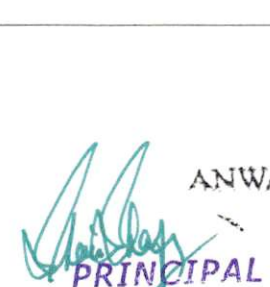

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Course Objective- Paper- II HISTORY OF INDIA {from 700 CE to 1526 CE}
1. After the completion of this course students will be able to identify and describe the subsequent rise of Regional States – Pallavas, Chalukyas of Badami, Rashtrakutas, Cholas.
2. Students will be able to explain local self Government under Cholas, Society, Economy, Literature and the Bhakti movement in South India.
3. Students will be able to explain the conquest of Sindh by Arabs, about the Ghaznavids and Ghoris
4. Students will understand the Administrative reforms done under different rulers of Delhi Sultanate, understand strategies, Military control and development of Political institutions and relationships amongst rulers.
5. Students will be able to understand the Caste system was condemned by the Bhakti saints, the lower classes were raised to a position of great importance.
Course Objective- Paper- III HISTORY OF INDIA {from 1526 CE to 1857CE}
1. Explain the foundation of the Mughal Empire, the qualities of Babur and Akbar that made them great successful Kings.
2. Evaluate the achievements of the rulers about their conquests and their Administration.
3. Acquire knowledge about the rise of Marathas and the life and achievements of Shivaji the great and his Administration.
4. Demonstrate by analyzing and evaluating Historical information from multiple sources of Maratha History.
5. Learn about the Qutub Shahi dynasty ruled the Golconda Sultanate, were great builders whose structures included Charminar, as well as patrons of Learning.
Course Objective- Paper- IV HISTORY OF INDIA {from 1858 CE to 1964 CE}

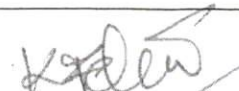

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1. Explain about the Revolt of 1857, its causes, nature importance and results.
2. It united, though in a limited way, many sections of Indian Society for common cause.
3. Understand about Lord Rippon's repeal of the Vernacular press and Lord Curzon's appointment of Police Commission and Partition of Bengal (1905).
4. Discuss about the Minto – Morley reforms (1909) and 1919 Act of the parliament of U K to expand participation of Indians in the Government of India and Act 1935.
5. Factors for Social change during Indian Renaissance, it is a new awakening, exposure to Scientific thoughts.
Course Objective- Paper- V A HISTORY OF MODERN WORLD {From 1453 CE to 1815 CE}
1. The decline of Medieval, Socio – Political, Religious and Economic conditions.
2. Assess the American Colonial experience under English domination through the Political, Social, Economical forces that shaped the development.
3. The reformation in England and the Reformers, Zwengli, Luthers, Calvin etc.
4. Industrialization and transformation of Society, there emerged a middle-class consisting of Businessmen working professionals, industrialists, labourers and working class people.
5. The characteristic features of Renaissance and various Geographical discoveries and rise of Colonialism.
Course Objective- Paper- V B ISLAMIC HISTORY AND CULTURE {From earliest times to fall of Ummayyads}
1. Understand better the broad spectrum of Social and Cultural diversity across humanity and exposure to different cultures and value system.
2. Explain Geographical and Physical conditions of Arabs before Islam and the prevailing religion.


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3. Understand by 630 he had unified most of Arabia under a single Religion Islam, his Migration from Mecca to Madina.
4. Understand the Arab Polytheism was based on the belief in deities and other supernatural beings such as Djina, Gods and Goddesses were worshipped at local shrines such as the Kaaba in Mecca.
5. Prophet Muhammed (P B U H) he was a man of high spirits, respectful, loving, founder of Islam. At 40 he got revelations from Allah.
Course Objective- Paper- VI A WORLD HISTORY {From 1815CE to 1950CE}
1. Identify the technological advances that made the Industrial Revolution is possible in both Europe and the United States.
2. Students gather information about the emergence of Japan as a powerful State and understand the Political History.
3. Understand the Capitalism which became the World's dominant Economic power, individual capitalists are typically wealthy people who benefits from the system of Capitalism by making increased profits.
4. Learn Chinese Revolution, nationalist democratic revolt that over threw the Manchu dynasty and created a Republic and Mao's divided land among the local farmers to gain support of Peasants.
5. Learn about the causes, course and results of First World War [1914 – 18].
Course Objective- Paper- VI B ISLAMIC HISTORY AND CULTURE {From rise of Abbasids to Crusades }
1. Understand the Ummayyads expansion of territory extending as far West as Spain and as far East as India, allowing both Islam and the Arabic language to spread over a vast area.
2. About the great Ummayyads their Political, Economic and Social conditions about the transformation of Caliphate from a religious institution to a dynastic one.
3. About the constructions of Ummayyads famous buildings mosque of Damascus and the reasons for the fall of the Empire.


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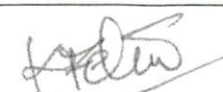


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4. Discuss the spread of Islam and identify how the Caliphs maintained authority over the conquered territories.
5. The Abbasids Caliphate rule was a time of peace and prosperity.
Course Outcome- Paper- I HISTORY OF INDIA {from earliest times to 700 CE}
1. Students will be able to explain Mauryan Government, Economy and Religion.
1. Students will be able to describe King Asoka, the greatest Mauryan King and his war Kalinga.
2. Students will acquire the knowledge about the sources for the study of Guptas.
3. Students will be able to describe Samudragupta's and Chadragupta's achievements.
4. Students will be able to explain the importance of Fahien's visit to India and Gupta's Administration, Society and Econoy and the Scientific development during the Gupta period.
Course Outcome- Paper- II HISTORY OF INDIA {from 700 CE to 1526 CE}
1. Students will be able to understand the impact on Religious, Cultural and Social life in South Asia that Sufism has left
2. Students will be able to Sufi Scholars made an instrumental and influential development in Social, Economic and Philosophical culture.
3. Students will be able to explain the Kakatiya dynasty that ruled most of the Eastern Deccan region, their great King Ganapatideva, who expanded the Kingdom.
4. Students will be able to about Marcopole's visit to India and made note of Rudrama Devi's rule and nature in flattering terms and her success.
5. Students will be able to learn about the Vijayanagara Empire that had left lasting legacy of Architecture, Sculpture and Painting.
Course Outcome- Paper- III HISTORY OF INDIA {from 1526 CE to 1857 CE}



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1. Explain the advent of Europeans to India, the settlement of Anglo – French rivalry.
2. Formation, Expansion and consolidation of British Empire in India under East India Company.
3. Learn the two objectives of East India Company to permanently rule in India was trade and ambition for Political power.
4. Explain about the various reforms made by British Generals – Warren Hastings, Lord Cornwallis, Lord William Bentinck and Lord Dalhousie.
5. Understand the rise of Sikhs in the Punjab about the Sikh Gurus, Ranjit Singh and their Administration.
Course Outcome- Paper- IV HISTORY OF INDIA {from 1858 CE to 1964 CE}
1. New discoveries and free thinking and religious reform movements were formed.
2. Learn about Mahatma Gandhi, the development of non – violent mass action and the Indian movement for Independence.
3. Explain the rise of Nationalism, identify the various phases of National movement.
4. Interpret the results of Salt March and Quit India Movement, express their views on Independence and Partition.
5. Understand the foundation of Independent India.
Course Outcome- Paper- V A HISTORY OF MODERN WORLD {From 1453 CE to 1815 CE}
1. Nation States – Spain, France, England, Russia, Austria, Italy and Prussia emergence.
2. Enlightened despots – Frederick the Great, Peter the Great and Joseph – II.
3. The glorious Revolution its causes and effects.
4. The peace of Paris, a collection of treaties signed by both sides ended the war. Britain recognized the United States of America as an independent country and the reforms made by Napoleon – introduced



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civil codes in 1804, it established equality before the law and simplified Administrative divisions and abolished Feudal system.
5. The Feudalism in Europe and Asia.
Course Outcome- Paper- V B ISLAMIC HISTORY AND CULTURE {From earliest times to fall of Ummayyads}
1. Explain battles of Islam, Battle of Badr, Major Military Victory led by Prophet Muhammed, battle of Ditch, which ultimately forced the Meccans to recognize the Political and Religious strength of Muslim Community in Madina.
2. To understand the essential teachings of Islam and Islamic sacred sources.
3. To learn about the Historical development of Islam from the time of the Prophet Muhammed to the present.
4. Explain about the lifes, teachings, preachings, expansions, conquests, Administration of the four Kalifas – Hazrath Abu Bakr, Hazrath Omar, Hazrath Osman and Hazrath Ali.
5. Understand the conditions of Arabs and the struggle for the power between Syria, Al Iraq and al Hijaz
Course Outcome- Paper- VI A WORLD HISTORY {From 1815 CE to 1950 CE}
1. The aim of League of Nation – to preserve peace and security in the world, to promote just and honorable relations among the nations of the world.
2. During Great Depression G D P declined by 30% and unemployment reached more than 20%, home lessness increased.
3. Japan joint Germany and Italy in the Tripartite pact agreeing to help each other and the rise of Turkey and Mustafa Kamal Pasha.
4. Students understand the Military operations that led to the defeat of Nazi regime and their allies in Europe and Japanese surrender in the Second World War (1939-45) and its causes and results.


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5. Students get familiarize with the formation of U N O, its contribution to the World peace, its organs, aims and importance.

Course Outcome- Paper- VI B ISLAMIC HISTORY AND CULTURE
{From rise of Abbasids to Crusades}

1. Great advances were made in many areas of Science, Mathematics and Medicines. The Abbasids ruled the Muslim world as an absolute hereditary monarchy between 750 and 258 CE
2. The Social and Economic life of Abbasids and the development of fine Arts, Education, Philosophy and Literature.
3. Abbasids cultural contribution, Baghdad was centrally located between Europe and Asia and was important area for Trade and Exchange of ideas.
4. Understand about the wars of Crusades, their impact and results and the fall of the Abbasids.
5. Learn about the Political, Economic and Educational institutions. Learn about Fine Arts, Literature and general Culture.



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Department of Psychology

2024-2025

Programme B.A (EHP)

Programme Specific Outcomes for B.A (EHP)

S.No	Students completing B.A. Psychology will be able to:
PO 1	Demonstrate familiarity with the major concepts.
PO 2	Understand and apply basic research methods in psychology.
PO 3	Respect and use critical and creative thinking approach to solve problems.
PO 4	Acquire foundational knowledge of psychology, statistics, and experimental psychology, enabling students to understand key concepts such as measurement scales, normal distribution, central tendency, variables, hypotheses, and experimental control.
PO 5	Apply psychological and statistical principles to analyze behavior, conduct experiments, interpret data scientifically, and present findings through APA-style lab reports, fostering critical thinking and research skills
PO 6	Understand and apply psychological principles to personal, social, and organizational issues.
PO 7	Weigh evidence, tolerate ambiguity and reflect other values.
PO 8	Demonstrate information competence and the ability to use computers and other technology.
PO 9	Able to communicate effectively in a variety of formats.
PO 10	Recognize, understand, and respect the complexity of sociocultural and international diversity.
PO 11	Able to pursue careers in both arts and scientific fields.

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HEAD
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Course Outcomes (CO's) B.A (EHP)

2024-2025

Semester I

Course Title: Psychology

Course Code: DSC-101

S.No	Students will be able to
CO 1	Describe key concepts, principles, and overarching themes in psychology.
CO 2	Develop a working knowledge of psychology's content domains.
CO 3	Describe applications of psychology.
CO 4	Use scientific reasoning to interpret psychological phenomena.
CO 5	Demonstrate psychology information literacy.
CO 6	Demonstrate knowledge of key concepts, principles, and applications in psychology, basics of statistics (measurement scales, normal distribution, central tendency), and experimental psychology (variables, hypotheses, experimental and control groups).
CO 7	Apply scientific reasoning and statistical tools to analyze psychological phenomena, conduct experiments, interpret data, and present findings through APA-style lab reports.

Semester II

Course Title: Psychology

Course Code: DSC-201

CO 1	Demonstrate the ability to apply methodologies that are used in the design of human-machine systems.
CO 2	Demonstrate the ability to investigate basic and applied issues in Human Factors related areas.
CO 3	Engage in real-world research and practice in the field.
CO 4	Use academic knowledge and professional skills to help create Human Factors solutions for clients.
CO 5	Demonstrate professional team management and organizational skills.

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Semester III

Course Title: Psychology

Course Code: DSC-301

S.No	Students will be able to
CO 1	Demonstrate effective writing skills.
CO 2	Engage in innovative and integrative thinking and problem solving skills.
CO 3	Interpret, design, and conduct basic psychological research
CO 4	Apply ethical standards to evaluate psychological science and practice
CO 5	Adopt values that build community.

Semester IV

Course Title: Psychology

Course Code: DSC-401

S.No	Students will be able to
CO 1	CO1: Exhibit effective presentation skills.
CO 2	CO2: Apply psychological content and skills to career goals.
CO 3	CO3: Demonstrate effective teamwork skills.
CO 4	CO4: Develop meaningful professional direction for life after graduation.
CO 5	CO5: Summarize and critique the psychology literature including core theories, particularly within their chosen area of specialization.

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Semester V

Course Title: Psychology

Course Code: DSC-501

S.No	Students will be able to
CO 1	Demonstrate their understanding and ability to implement basic and applied research designs.
CO 2	Demonstrate knowledge of the range of analytic techniques that are used in psychology.
CO 3	Communicate both orally and in writing at a level that is appropriate for professionals in their chosen area.
CO 4	Ethical and Social Responsibility in a Diverse World.
CO 5	Scientific Inquiry and Critical Thinking.

Semester VI

Course Title: Psychology

Course Code: DSC-601

S.No	Students will be able to
CO 1	Demonstrate effective writing skills.
CO 2	Exhibit effective presentation skills.
CO 3	Demonstrate the ability to work effectively both independently and in group settings.
CO 4	Develop meaningful professional direction for a career after graduation.
CO 5	Demonstrate an understanding of the ethical and legal issues affecting research in psychology.

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HEAD
DEPARTMENT OF PSYCHOLOGY
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DEPARTMENT OF COMMERCE

B.Com. [General / Comp. Appl. / E-Commerce/Foreign Trade]

Programme Outcomes (General)

PO-1.	Demonstrate knowledge of accounting, finance, business laws, and economics in the field of commerce.
PO-2.	Apply business and financial principles to real-life organizational situations for effective decision-making.
PO-3.	Analyze and interpret financial statements, market trends, and business data for problem-solving.
PO-4.	Evaluate business strategies and recommend solutions based on ethical and legal considerations.
PO-5.	Create business plans or innovative ideas for entrepreneurship and sustainable development.
PO-6.	Communicate effectively in professional settings using oral, written, and digital platforms.
PO-7.	Demonstrate lifelong learning ability to adapt to dynamic business environments and pursue higher education or professional courses.

Programme Objective (General)

PO1	To provide students with a strong foundation in core areas of commerce such as accounting, finance, taxation, and business management.
PO2	To cultivate analytical and critical thinking skills for solving business problems and making informed decisions.
PO3	To develop effective communication skills for professional and business contexts.
PO4	To instill ethical values, corporate governance principles, and social responsibility awareness.
PO5	To encourage entrepreneurial mindset and leadership qualities among students.
PO6	To integrate technology in business practices through the use of digital tools and e-commerce platforms.
PO7	To build research competence and ability to interpret market trends using statistical and analytical methods.
PO8	To create awareness about global business practices and cross-cultural diversity.
PO9	To promote lifelong learning for continuous personal and professional growth.
PO10	To prepare students for diverse career opportunities and higher studies in commerce and related fields.
PO11	To provide students with a strong foundation in core areas of commerce such as accounting, finance, taxation, and business management.
PO12	To cultivate analytical and critical thinking skills for solving business problems and making informed decisions.

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Programme Specific Outcome (General)

PSO -1	Demonstrate comprehensive knowledge of accounting principles, financial reporting, and auditing practices.
PSO - 2	Apply cost and management accounting techniques for business decision-making
PSO - 3	Analyze and interpret financial statements to assess organizational performance.
PSO - 4	Demonstrate proficiency in taxation laws and their application in business and individual contexts.
PSO - 5	Utilize knowledge of business laws and corporate governance in organizational operations.
PSO - 6	Apply principles of economics to evaluate market trends, pricing strategies, and economic policies.
PSO - 7	Use modern technological tools, accounting software, and digital platforms for efficient business operations.
PSO - 8	Exhibit skills in marketing strategies, consumer behavior analysis, and market research techniques.
PSO - 9	Develop entrepreneurial competencies to identify and manage business opportunities.
PSO - 10	Demonstrate research skills for analyzing business problems using statistical and quantitative techniques.
PSO - 11	Apply ethical principles and corporate social responsibility in professional and business practices.
PSO - 12	Prepare for competitive examinations, professional certifications, and higher education in commerce-related fields.

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SEMESTER - I

COURSE OBJECTIVES

FINANCIAL ACCOUNTING – I

COS -1	To understand the accounting process.
COS-2	To classify and record various business transactions in the respective subsidiary books.
COS-3	To know the reasons for disagreement of cash book and pass book balances.
COS-4	To identify and rectify the accounting errors at various stages of accounting cycle.
COS-5	To prepare the final accounts of the sole trader

COURSE OUTCOMES

COS -1	Describe and understand the accounting principles and recording of business transactions in Journal.
COS-2	Prepare ledgers and subsidiary books.
COS-3	Prepare and analyze the Bank Reconciliation statement.
COS-4	Understand the way of rectification of errors in the books of accounts.
COS-5	Understand the needs of preparing financial statement with adjustments.

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COURSE OBJECTIVES

BUSINESS ORGANIZATION & MANAGEMENT

COS -1	To know the forms of Business organization.
COS-2	To understand the meaning and classification of Joint Stock companies.
COS-3	To know the meaning and functions of management
COS-4	To study the importance of Planning and Organizing in a Business Organization.
COS-5	To differentiate the concepts of Authority, Power, Accountability, Responsibility, Delegation and Decentralization.

COURSE OUTCOMES

BUSINESS ORGANIZATION & MANAGEMENT

COS -1	Describe and understand the forms of business organization.
COS-2	Knows the forms of companies and important documents.
COS-3	Equips with the application of Fayol's 14 principles of Management
COS-4	Understand the benefits of planning and organizing in an organization.
COS-5	Gain confidence in proper use of Authority, Responsibility, Centralization, Decentralization, Coordination, Cooperation and Control Terms.

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COURSE OBJECTIVES

FOREIGN TRADE [B.Com- General]

COS-1	To equip the students with introduction to Foreign Trade.
COS-2	To impart knowledge about BOT & BOP.
COS-3	To know about Indian Trade Policy.
COS-4	To impart knowledge about foreign trade & trade blocs.
COS-5	To know about International Economic Institutions.

COURSE OUTCOMES

FOREIGN TRADE [B.Com- General]

COS-1	Explain the concepts, importance, and theories of foreign trade in the global economy.
COS-2	Analyze the balance of payments, exchange rate mechanisms, and their impact on international trade.
COS-3	Apply knowledge of export and import procedures, documentation, and policies in business contexts.
COS-4	Evaluate the role of international trade organizations and trade agreements in promoting global trade.
COS-5	Demonstrate the ability to develop strategies for managing foreign trade risks and opportunities.

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COURSE OBJECTIVES


INTRODUCTION TO INTERNATIONAL BUSINESS [B.Com- Foreign Trade]

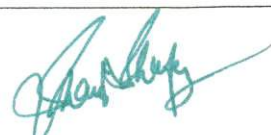
COS -1	Define and analyze the core concepts, importance and various strategies for engaging in international business.
COS-2	Evaluate the multifaceted impact of economic, cultural, political and technological environments on global business operations.
COS-3	Assess the role and implications of regional economic integration and multinational corporations in shaping global commerce.
COS-4	Understand the functions of key international economic institutions and agreements influencing global trade.
COS-5	Identify and discuss emerging trends, challenges and contemporary issues in the international business landscape.

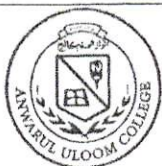
COURSE OUTCOMES

INTRODUCTION TO INTERNATIONAL BUSINESS [B.Com- Foreign Trade]

COS -1	Differentiate between domestic and International Business and select appropriate modes of entry into global markets.
COS-2	Appraise the influence of diverse environmental factor [economic, cultural, political and technological] into global markets.
COS-3	Critically analyze the contributions of regional economic groupings and MNCs to global trade, understanding their operational complexities.
COS-4	Explain the significance of international economics institutions [eg. WTO, IMF, World Bank] and agreements in facilitating or regulating World trade.
COS-5	Articulate informed perspectives on contemporary global trade issues, including protectionism, sustainability and technological impacts relevant to international.


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COURSE OBJECTIVES

FUNDAMENTALS OF INFORMATION TECHNOLOGY [B.Com- COMP / E-COM]

COS -1	To introduce students to the basic structure, functions and types of computers.
COS-2	To develop understanding of number systems, computer arithmetic and data storage fundamentals.
COS-3	To provide foundational knowledge of system and application software.
COS-4	To explain the role and functions of operating systems and system utilities
COS-5	To impart knowledge on data communication, networking concepts and related hardware.

COURSE OUTCOMES

FUNDAMENTALS OF INFORMATION TECHNOLOGY [B.Com- COMP / E-COM]

COS -1	Identify and describe components and functions of a computer system.
COS-2	Perform conversions and arithmetic operations in various number systems.
COS-3	Distinguish between system software and application software with examples.
COS-4	Understand operating system functions and classify processing techniques.
COS-5	Explain data communication concepts and recognize basic networking devices and topologies.

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SEMESTER - II

COURSE OBJECTIVES

FINANCIAL ACCOUNTING - II [B.Com- COMP / E-COM/FOREIGN TRADE/GENERAL]

COS -1	To impart advanced knowledge of financial accounting concepts and practices.
COS-2	To enable students to understand and prepare accounts of partnership firms, including admission, retirement, and dissolution.
COS-3	To develop the ability to handle accounting for branches and departmental accounts.
COS-4	To familiarize students with the concept and preparation of hire purchase and installment accounts.
COS-5	To equip students with skills to prepare final accounts incorporating adjustments and special transactions.


COURSE OUTCOMES

FINANCIAL ACCOUNTING - II [B.Com- COMP / E-COM/FOREIGN TRADE/GENERAL]

COS -1	Appreciate the need for negotiable instruments and procedure of accounting for bills honoured and dishonoured.
COS-2	Understand the concept of Consignment and learn the accounting treatment of the various aspects of consignment.
COS-3	Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under Joint Venture
COS-4	Distinguish between Single Entry and Double Entry
COS-5	Understand the meaning and features of Non-Profit Organizations.

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COURSE OBJECTIVES

BUSINESS LAWS [B.Com- COMP / E-COM/FOREIGN TRADE/GENERAL]

COS -1	To equip the students with introduction to Indian contract act.
COS-2	To impart knowledge about sale of goods act and consumer protection act
COS-3	To know about providing guidance on intellectual property rights.
COS-4	To enhance student's determination in management of companies and meetings
COS-5	To develop knowledge about winding up.

COURSE OUTCOMES

BUSINESS LAWS [B.Com- COMP / E-COM/FOREIGN TRADE/GENERAL]

COS -1	To provide knowledge about Indian contract act.
COS-2	To provide knowledge about sale of goods act and consumer protection act.
COS-3	To introduce about intellectual property rights
COS-4	To provide knowledge about management of companies and meetings.
COS-5	To gain knowledge about winding up of companies

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COURSE OBJECTIVES

BANKING AND FINANCIAL SERVICES [B.COM-GENERAL]

COS-1	To equip the students with introduction to banking.
COS-2	To enable the students about Banker and Customer Relationship
COS-3	To provide knowledge about Negotiable Instruments
COS-4	To equip the students with Introduction to Financial Services
COS-5	To gain knowledge about financial services

COURSE OUTCOMES

BANKING AND FINANCIAL SERVICES [B.COM-GENERAL]

COS-1	Explain the structure and functioning of the banking system and financial institutions in India.
COS-2	Analyze the various banking products, services, and innovations in financial technology.
COS-3	Apply the principles of credit management, risk management, and investment practices in banking operations.
COS-4	Evaluate the role of regulatory bodies like RBI, SEBI, and their impact on financial markets.
COS-5	Develop the ability to design strategies for effective financial planning and service delivery in banking institutions.

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COURSE OBJECTIVES

RELATIONAL DATABASE MANAGEMENT SYSTEM [B.COM-E-COMMERCE]

COS -1	To provide a strong foundation in database concepts, data models, and relational database design.
COS-2	To enable students to understand the principles of Structured Query Language (SQL) for data manipulation and retrieval.
COS-3	To develop skills for designing normalized database schemas for efficient data storage in e-commerce applications.
COS-4	To familiarize students with transaction management, concurrency control, and database security concepts.
COS-5	To equip students with practical knowledge to implement and manage relational databases for real-world e-commerce systems.

COURSE OUTCOMES

RELATIONAL DATABASE MANAGEMENT SYSTEM [B.COM-E-COMMERCE]

COS-1	1. Describe DBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models.
COS-2	Identify basic database storage structures and access techniques such as file organizations, indexing including B-tree, and hashing.
COS-3	Learn and apply Structured query language (SQL) for database definition and database manipulation.
COS-4	Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of database.
COS-5	Understand Data selection and operators used in queries and restrict data retrieval and control the disorder & Write sub queries and understand their purpose



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COURSE OBJECTIVES

PROGRAMMING WITH C & C++ [B.COM-COMPUTER APPLICATION]

COS -1	To introduce the fundamental concepts of programming and problem-solving using C and C++.
COS-2	To enable students to understand the structure and syntax of C and C++ programming languages.
COS-3	To develop skills to write, compile, and execute programs for business and accounting applications.
COS-4	To familiarize students with concepts of functions, arrays, pointers, and object-oriented programming features.
COS-5	To equip students with the ability to apply programming techniques for automating business processes and data handling.


COURSE OUTCOMES

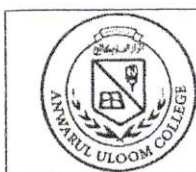
PROGRAMMING WITH C & C++ [B.COM-COMPUTER APPLICATION]

COS -1	To create Flow chart basic structure of C program, Algorithms and basic programming skills.
COS-2	Control structures for looping in the programs and Define functions and different types of functions
COS-3	Developing programs using Arrays and ability to develop programs using Pointers
COS-4	Understand the difference between the top-down and bottom-up approach
COS-5	Describe the object-oriented programming approach in connection with C++

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COURSE OBJECTIVES

EXPORT MARKETING [B.COM-FOREIGN TRADE]

COS -1	To provide a clear understanding of the concepts, scope, and significance of export marketing in international trade.
COS-2	To familiarize students with export procedures, documentation, and legal formalities involved in foreign trade.
COS-3	To develop knowledge about pricing strategies, payment terms, and risk management in export transactions.
COS-4	To enable students to understand government export promotion measures and the role of export promotion organizations.
COS-5	To equip students with practical knowledge for preparing export marketing plans and strategies to compete globally.

COURSE OUTCOMES

EXPORT MARKETING [B.COM-FOREIGN TRADE]

COS -1	Explain the fundamental principles and practices of international trade and export marketing.
COS-2	Analyze foreign trade policies, export-import regulations, and their implications on business.
COS-3	Apply knowledge of export documentation, shipping procedures, and payment methods in real trade scenarios.
COS-4	Evaluate international marketing strategies and global trade agreements for business growth.
COS-5	Develop export business plans and strategies for entering and sustaining in global markets.

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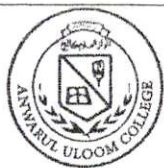
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SEMESTER – III

COURSE OBJECTIVES

ADVANCED ACCOUNTING [B.COM ALL STREAMS]

COS -1	To impart in-depth knowledge of advanced accounting concepts, principles, and practices.
COS-2	To enable students to prepare and present financial statements for partnerships and joint stock companies.
COS-3	To develop understanding of amalgamation, absorption, and reconstruction of companies.
COS-4	To familiarize students with accounting for liquidation of companies and valuation of goodwill and shares.
COS-5	To equip students with practical knowledge to handle complex accounting issues in business organizations.

COURSE OUTCOMES

ADVANCED ACCOUNTING [B.COM ALL STREAMS]

COS -1	Explain the principles and standards governing advanced accounting practices.
COS-2	Prepare final accounts for partnership firms and joint stock companies as per legal requirements.
COS-3	Analyze and solve problems related to amalgamation, absorption, and internal reconstruction.
COS-4	Evaluate the methods of valuing goodwill and shares in various business situations.
COS-5	Demonstrate the ability to handle liquidation accounting and present statements of affairs.



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COURSE OBJECTIVES

BUSINESS STATISTICS - I [B.COM ALL STREAMS]

COS -1	To introduce the fundamental concepts and importance of statistics in business decision-making.
COS-2	To enable students to understand data collection, classification, and presentation techniques.
COS-3	To develop skills in computing and interpreting measures of central tendency and dispersion.
COS-4	To familiarize students with correlation and regression analysis for business applications.
COS-5	To provide practical knowledge of applying statistical methods to real-life business problems.

COURSE OUTCOMES

BUSINESS STATISTICS - I [B.COM ALL STREAMS]

COS -1	Explain the basic concepts of statistics and their application in commerce and business.
COS-2	Organize, classify, and present business data using tables, diagrams, and graphs.
COS-3	Compute and interpret measures of central tendency, dispersion, and skewness for business data.
COS-4	Analyze the relationship between variables using correlation and regression techniques.
COS-5	Apply statistical methods to solve practical business and economic problems.

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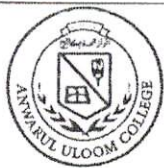
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COURSE OBJECTIVES

FINANCIAL INSTITUTION AND MARKET [B.COM -GENERAL]

COS-1	To provide knowledge about the structure and functioning of financial institutions and markets in India.
COS-2	To familiarize students with the roles of banks, non-banking financial institutions, and regulatory bodies.
COS-3	To explain the operations of money markets, capital markets, and foreign exchange markets.
COS-4	To develop understanding of financial instruments like shares, bonds, and derivatives.
COS-5	To equip students with knowledge of recent trends and innovations in financial markets.

COURSE OUTCOMES

FINANCIAL INSTITUTION AND MARKET [B.COM -GENERAL]

COS-1	Explain the structure and functioning of financial institutions and markets in India.
COS-2	Analyze the roles and operations of banks, NBFCs, and regulatory authorities in the financial system.
COS-3	Apply the knowledge of money market and capital market instruments in business and investment decisions.
COS-4	Evaluate the impact of financial reforms and innovations on Indian financial markets.
COS-5	Demonstrate understanding of global financial trends and their implications for the Indian economy.

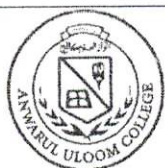
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COURSE OBJECTIVES

RELATIONAL DATABASE MANAGEMENT SYSTEM [B.COM-COMP. APPL.]

COS -1	To introduce the fundamental concepts of database systems and data models.
COS-2	To enable students to design and implement relational databases for business applications.
COS-3	To provide knowledge of SQL commands for data definition, manipulation, and retrieval.
COS-4	To develop an understanding of database normalization and transaction management.
COS-5	To equip students with practical skills to manage and maintain relational databases in real-time applications.

COURSE OUTCOMES

RELATIONAL DATABASE MANAGEMENT SYSTEM [B.COM-COMP. APPL.]

COS -1	Explain the basic concepts, architecture, and components of database systems.
COS-2	Design normalized database schemas for business and commercial applications.
COS-3	Use SQL queries to create, retrieve, update, and manage data in relational databases.
COS-4	Analyze database anomalies and apply normalization techniques to improve efficiency.
COS-5	Demonstrate practical ability to implement and maintain relational databases using DBMS tools.

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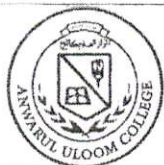
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COURSE OBJECTIVES

PROGRAMMING WITH C [B.COM-E-COMMERCE]

COS -1	To introduce the basic concepts of programming and problem-solving using the C language.
COS-2	To enable students to understand the syntax, structure, and features of the C programming language.
COS-3	To develop skills in writing, compiling, and debugging C programs for business and e-commerce applications.
COS-4	To familiarize students with control structures, functions, arrays, pointers, and file handling concepts.
COS-5	To equip students to apply programming techniques for developing simple business-oriented applications.

COURSE OUTCOMES

PROGRAMMING WITH C [B.COM-E-COMMERCE]

COS -1	Explain the fundamental concepts and features of C programming language.
COS-2	Write and execute C programs using variables, operators, and control structures.
COS-3	Implement modular programming through the use of functions and arrays.
COS-4	Analyze problems and develop logic for solving business-related programming tasks.
COS-5	Create simple applications for e-commerce scenarios using file handling and data processing in C.

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COURSE OBJECTIVES

INTERNATIONAL BUSINESS PROCEDURES & DOCUMENTATION [B.COM-FOREIGN TRADE]

COS -1	To provide an understanding of the procedures involved in international trade transactions.
COS-2	To familiarize students with export-import policies, laws, and trade regulations.
COS-3	To develop knowledge of various types of international trade documents and their significance.
COS-4	To enable students to understand the role of shipping, customs clearance, and foreign exchange management in trade.
COS-5	To equip students with practical knowledge for preparing and processing trade documents for export and import.

COURSE OUTCOMES

INTERNATIONAL BUSINESS PROCEDURES & DOCUMENTATION [B.COM-FOREIGN TRADE]

COS -1	Explain the concepts and procedures involved in international trade operations.
COS-2	Identify and classify various export and import documents used in foreign trade.
COS-3	Apply knowledge of documentation in preparing export orders, invoices, and customs declarations.
COS-4	Analyze the role of shipping, insurance, and foreign exchange in international trade transactions.
COS-5	Demonstrate the ability to prepare a complete set of export-import documentation as per trade regulations.

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SEMESTER - IV

COURSE OBJECTIVES

INCOME TAX [B.COM-ALL STREAMS]

COS-1	To provide knowledge of the basic concepts and provisions of the Indian Income Tax Act.
COS-2	To enable students to understand the residential status and its impact on tax liability.
COS-3	To develop the ability to compute income under different heads of income.
COS-4	To familiarize students with deductions, exemptions, and rebates available under the Act.
COS-5	To equip students with practical knowledge for calculating tax liability and filing returns.

COURSE OUTCOMES

INCOME TAX [B.COM-ALL STREAMS]

COS-1	Explain the basic concepts, definitions, and provisions of the Income Tax Act.
COS-2	Determine the residential status of an individual and its effect on tax incidence.
COS-3	Compute taxable income under various heads such as Salary, House Property, and Business.
COS-4	Analyze and apply deductions, exemptions, and set-off provisions for tax computation.
COS-5	Prepare statements for total income and calculate the tax liability of individuals as per law.

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COURSE OBJECTIVES

BUSINESS STATISTICS - II [B.COM-ALL STREAMS]

COS -1	To provide an understanding of advanced statistical tools for business decision-making.
COS-2	To enable students to understand and apply concepts of probability and probability distributions.
COS-3	To develop knowledge of hypothesis testing and its applications in business research.
COS-4	To familiarize students with correlation, regression, and time series analysis techniques.
COS-5	To equip students with the ability to use statistical tools for forecasting and decision-making.

COURSE OUTCOMES

BUSINESS STATISTICS - II [B.COM-ALL STREAMS]

COS -1	Explain the concepts of probability, probability distributions, and their applications in business.
COS-2	Apply measures of correlation and regression analysis to study relationships between variables.
COS-3	Compute and interpret results of hypothesis testing in business and economics.
COS-4	Analyze time series data for forecasting and planning business activities.
COS-5	Demonstrate the use of statistical tools in solving real-world business problems for decision-making.

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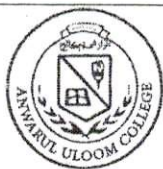
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COURSE OBJECTIVES

WEB TECHNOLOGIES [B.COM-COMP. APPL.]

COS -1	To introduce the fundamental concepts of web technologies and internet architecture.
COS-2	To enable students to design and develop static and dynamic web pages using HTML, CSS, and JavaScript.
COS-3	To familiarize students with client-server architecture and basic scripting techniques.
COS-4	To develop skills in using web development tools for creating business and e-commerce websites.
COS-5	To equip students with knowledge of hosting, maintenance, and security aspects of websites.

COURSE OUTCOMES

WEB TECHNOLOGIES [B.COM-COMP. APPL.]

COS -1	Explain the structure of the internet, web technologies, and their applications in e-commerce.
COS-2	Design and create static web pages using HTML and CSS.
COS-3	Develop interactive and dynamic web pages using JavaScript and form validation techniques.
COS-4	Analyze client-server concepts and apply scripting for web-based business solutions.
COS-5	Build and deploy a basic e-commerce website with proper hosting and security features.

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COURSE OBJECTIVES

CORPORATE ACCOUNTING [B.COM-GENERAL / FOREIGN TRADE]

COS-1	To provide in-depth knowledge of accounting for companies as per the Companies Act and accounting standards.
COS-2	To enable students to prepare financial statements for joint stock companies.
COS-3	To develop an understanding of accounting for shares, debentures, and company final accounts.
COS-4	To familiarize students with amalgamation, absorption, and internal reconstruction of companies.
COS-5	To equip students with practical knowledge of valuation of goodwill and shares in a corporate environment.

COURSE OUTCOMES

CORPORATE ACCOUNTING [B.COM-GENERAL / FOREIGN TRADE]



COS-1	Explain the principles and legal requirements for company accounts under the Companies Act.
COS-2	Prepare financial statements of joint stock companies in compliance with statutory provisions.
COS-3	Compute and record accounting entries for issue, forfeiture, and redemption of shares and debentures.
COS-4	Analyze and prepare accounts for amalgamation, absorption, and internal reconstruction.
COS-5	Determine the valuation of goodwill and shares using various methods and present corporate reports.


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COURSE OBJECTIVES

OBJECT ORIENTED PROGRAMMING WITH C++ [B.COM-E-COMMERCE]

COS-1	To introduce the principles of object-oriented programming and its applications in business solutions.
COS-2	To enable students to understand and implement concepts like classes, objects, inheritance, and polymorphism.
COS-3	To develop skills for writing modular and reusable code using C++ features.
COS-4	To familiarize students with file handling, templates, and exception handling in C++.
COS-5	To equip students with the ability to design and develop simple business applications using object-oriented techniques.

COURSE OUTCOMES

OBJECT ORIENTED PROGRAMMING WITH C++ [B.COM-E-COMMERCE]

COS-1	Explain the fundamental concepts of object-oriented programming and their benefits.
COS-2	Write programs using classes, objects, constructors, and destructors in C++.
COS-3	Implement inheritance, polymorphism, and encapsulation to create modular applications.
COS-4	Use file handling, templates, and exception handling for robust and efficient programs.
COS-5	Design and develop business-oriented applications using object-oriented principles in C++.

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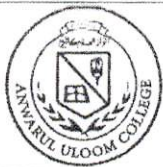
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SEMESTER – V

COURSE OBJECTIVES

COST ACCOUNTING [B.COM-ALL STREAMS]

COS -1	To provide an understanding of basic concepts and principles of cost accounting.
COS-2	To enable students to classify, allocate, and control costs effectively.
COS-3	To impart knowledge about different costing methods and techniques used in business.
COS-4	To develop analytical skills for cost ascertainment and cost control for decision-making.
COS-5	To prepare students for applying cost accounting in managerial planning and control.

COURSE OUTCOMES

COST ACCOUNTING [B.COM-ALL STREAMS]

COS -1	Explain the fundamental concepts and importance of cost accounting in business.
COS-2	Prepare cost sheets and compute unit costs for various products.
COS-3	Apply various methods of costing like job costing, process costing, and contract costing.
COS-4	Analyze and interpret cost data for managerial decisions like pricing and profitability.
COS-5	Design and implement effective cost control and cost reduction strategies in business.

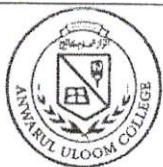
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COURSE OBJECTIVES

COMPUTERIZED ACCOUNTING [B.COM-ALL STREAMS]

COS -1	To introduce students to the basics of computerized accounting systems.
COS-2	To impart knowledge of accounting software like Tally/other ERP packages.
COS-3	To enable students to record transactions and generate reports electronically.
COS-4	To develop skills in preparing financial statements using computerized tools.
COS-5	To familiarize students with GST, payroll, and other advanced features of computerized accounting.

COURSE OUTCOMES

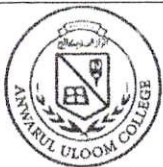
COMPUTERIZED ACCOUNTING [B.COM-ALL STREAMS]

COS -1	Describe the structure and benefits of computerized accounting systems.
COS-2	Perform accounting operations using Tally or similar software.
COS-3	Generate financial reports such as ledgers, trial balance, and final accounts.
COS-4	Execute GST entries, payroll, and voucher entries using computerized tools.
COS-5	Design and maintain a complete accounting system for a small business in software.

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COURSE OBJECTIVES

AUDITING [B.COM-GENERAL]

COS -1	To familiarize students with basic concepts and principles of auditing.
COS-2	To provide knowledge about different types of audits and their procedures.
COS-3	To understand the role of an auditor in detecting and preventing fraud.
COS-4	To explain the audit process including vouching, verification, and valuation.
COS-5	To develop skills in preparing audit reports as per statutory requirements.

COURSE OUTCOMES

AUDITING [B.COM-GENERAL]

COS -1	Explain the objectives, scope, and importance of auditing.
COS-2	Differentiate between various types of audits and their applicability.
COS-3	Apply audit techniques in vouching and verification of assets and liabilities.
COS-4	Analyze the role of auditing in internal control and fraud detection.
COS-5	Prepare and present audit reports as per auditing standards.

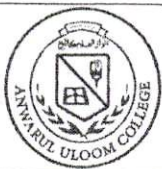
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COURSE OBJECTIVES

MANAGEMENT INFORMATION SYSTEM [B.COM-COMP. APPL.]

COS -1	To provide an understanding of MIS concepts and its role in business.
COS-2	To explain how information systems support managerial decision-making.
COS-3	To introduce different components of MIS and their integration.
COS-4	To understand database management systems in the context of MIS.
COS-5	To enable students to design simple MIS reports for organizations.

COURSE OUTCOMES

MANAGEMENT INFORMATION SYSTEM [B.COM-COMP. APPL.]

COS -1	Define the concept and components of MIS and its importance in organizations.
COS-2	Illustrate the role of MIS in strategic, tactical, and operational decision-making.
COS-3	Apply database concepts to develop MIS reports.
COS-4	Analyze various types of MIS and their applications in different functional areas.
COS-5	Design simple MIS for business operations.

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COURSE OBJECTIVES

FUNDAMENTALS OF E-COMMERCE [B.COM-E-COMMERCE]

COS -1	To introduce the concepts, models, and applications of e-commerce.
COS-2	To understand the technological infrastructure of e-commerce.
COS-3	To explain security and legal aspects of online transactions.
COS-4	To provide knowledge about digital payment systems and e-business models.
COS-5	To develop skills for setting up an e-commerce website.

COURSE OUTCOMES

FUNDAMENTALS OF E-COMMERCE [B.COM-E-COMMERCE]

COS -1	Explain the fundamental concepts and importance of e-commerce in business.
COS-2	Differentiate between various e-commerce models like B2B, B2C, and C2C.
COS-3	Apply knowledge of online payment systems and security mechanisms.
COS-4	Analyze legal and ethical issues in e-commerce transactions.
COS-5	Develop and design a basic e-commerce website using available tools.

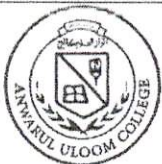
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COURSE OBJECTIVES

LOGISTICS MANAGEMENT [B.COM-FOREIGN TRADE]

COS -1	To provide knowledge of logistics concepts and its role in supply chain management.
COS-2	To understand transportation, warehousing, and inventory management.
COS-3	To explain the significance of logistics in global trade.
COS-4	To introduce logistics cost control and performance measurement.
COS-5	To enable students to apply logistics strategies for business efficiency.

COURSE OUTCOMES

LOGISTICS MANAGEMENT [B.COM-FOREIGN TRADE]

COS -1	Explain the concept, functions, and scope of logistics management.
COS-2	Describe various modes of transportation and warehousing techniques.
COS-3	Apply inventory management techniques for effective logistics operations.
COS-4	Analyze the role of logistics in global trade and e-commerce.
COS-5	Develop strategies for reducing logistics cost and improving efficiency.

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SEMESTER - VI

COURSE OBJECTIVES

RESEARCH METHODOLOGY & PROJECT REPORT [B.COM- ALL STREAMS]

COS -1	To understand the fundamentals of research methodology.
COS-2	To develop skills for formulating research problems.
COS-3	To learn methods of data collection and sampling.
COS-4	To enhance skills for report writing and documentation.
COS-5	To understand ethical issues in research.

COURSE OUTCOMES

RESEARCH METHODOLOGY & PROJECT REPORT [B.COM- ALL STREAMS]

COS -1	Apply research techniques to analyze business problems.
COS-2	Design and implement research projects independently.
COS-3	Interpret and analyze data using statistical tools.
COS-4	Prepare a well-structured research report.
COS-5	Demonstrate ethical practices in research work.

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COURSE OBJECTIVES

COST CONTROL AND MANAGEMENT ACCOUNTING [B.COM- ALL STREAMS]

COS -1	To provide knowledge about cost control techniques.
COS-2	To understand the role of management accounting.
COS-3	To analyze cost behavior for effective planning.
COS-4	To familiarize with marginal costing and standard costing.
COS-5	To develop strategic cost management skills.

COURSE OUTCOMES

COST CONTROL AND MANAGEMENT ACCOUNTING [B.COM- ALL STREAMS]

COS -1	Apply cost control methods in decision-making.
COS-2	Prepare budgets and variance analysis reports.
COS-3	Analyze cost-volume-profit relationships.
COS-4	Use marginal costing for managerial decisions.
COS-5	Evaluate performance using management accounting tools.

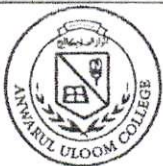
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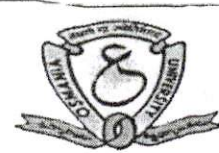


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COURSE OBJECTIVES

THEORY AND PRACTICE OF GST [B.COM- ALL STREAMS]

COS -1	To understand the concept and framework of GST.
COS-2	To learn the registration and filing process under GST.
COS-3	To study the tax liability and input tax credit system.
COS-4	To gain knowledge of compliance and e-filing.
COS-5	To understand GST's impact on business operations.


COURSE OUTCOMES

THEORY AND PRACTICE OF GST [B.COM- ALL STREAMS]

COS -1	Explain the structure and mechanism of GST.
COS-2	Register businesses and file GST returns accurately.
COS-3	Compute GST liability for different scenarios.
COS-4	Demonstrate GST compliance through e-filing.
COS-5	Analyze the effect of GST on pricing and costing.



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COURSE OBJECTIVES

ACCOUNTING STANDARD [B.COM – GENERAL]

COS -1	To introduce students to Indian Accounting Standards (Ind AS).
COS-2	To understand the application of standards in financial statements.
COS-3	To familiarize with AS on revenue, inventory, and depreciation.
COS-4	To understand the disclosure requirements of AS.
COS-5	To build competence in using AS for corporate reporting.

COURSE OUTCOMES

ACCOUNTING STANDARD [B.COM – GENERAL]

COS -1	Explain the purpose and scope of accounting standards.
COS-2	Apply relevant standards while preparing accounts.
COS-3	Prepare statements following applicable standards.
COS-4	Ensure compliance with disclosure norms.
COS-5	Demonstrate proper application of standards in reporting.

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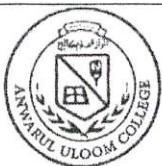
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COURSE OBJECTIVES

MULTIMEDIA SYSTEM [B.COM – COMP. APPL.]

COS -1	To understand the concepts of multimedia and its components.
COS-2	To learn image, audio, and video processing techniques.
COS-3	To explore multimedia storage and compression methods.
COS-4	To understand multimedia applications in business and education.
COS-5	To familiarize with multimedia development software.

COURSE OUTCOMES

MULTIMEDIA SYSTEM [B.COM – COMP. APPL.]

COS -1	Explain multimedia architecture and tools.
COS-2	Apply multimedia tools for creating presentations.
COS-3	Use appropriate compression techniques in projects.
COS-4	Design interactive multimedia content for business use.
COS-5	Develop simple multimedia projects using authoring tools.

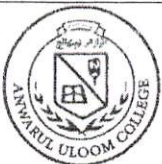
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COURSE OBJECTIVES

BUSINESS DATA ANALYTICS [B.COM-E-COMMERCE]

COS -1	To introduce the concepts of data analytics in business.
COS-2	To understand data collection, cleaning, and visualization.
COS-3	To learn statistical and predictive analysis techniques.
COS-4	To explore data-driven decision-making processes.
COS-5	To familiarize with analytical tools like Excel, R, or Python.

COURSE OUTCOMES

BUSINESS DATA ANALYTICS [B.COM-E-COMMERCE]

COS -1	Explain the role of analytics in decision-making.
COS-2	Apply data visualization tools for business insights.
COS-3	Perform predictive analysis using datasets.
COS-4	Interpret analytical results for strategic planning.
COS-5	Use basic tools for performing business analytics.

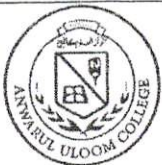
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COURSE OBJECTIVES

CROSS-CULTURAL CONSUMER AND INDUSTRIAL BUYER BEHAVIOUR[B.COM- FOREIGN TRADE]

COS -1	To understand the concept of consumer behavior in a global context.
COS-2	To study cross-cultural factors influencing industrial buying.
COS-3	To explore theories and models of consumer behavior.
COS-4	To understand cultural diversity in marketing practices.
COS-5	To develop skills for international market research.

COURSE OUTCOMES

CROSS-CULTURAL CONSUMER AND INDUSTRIAL BUYER BEHAVIOUR[B.COM- FOREIGN TRADE]

COS -1	Analyze the impact of culture on consumer buying decisions.
COS-2	Compare consumer and industrial buying behaviors across cultures.
COS-3	Apply consumer behavior models in marketing strategies.
COS-4	Design marketing strategies for cross-cultural markets.
COS-5	Conduct consumer research in global business environments.

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Department of Business Administration

2024 - 2025

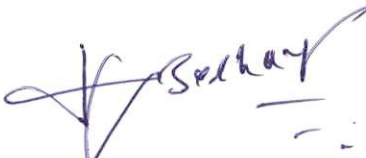
Programme: BBA

Programme-Specific Outcomes for B.B.A

S. No	Students completing B.B.A will be able to
PSO 1	Critical Thinking Skills: Students are able to define, analyze, and devise solutions for structured and unstructured business problems and issues using cohesive and logical reasoning patterns for evaluating information, materials, and data.
PSO 2	Communication Skills: Students are able to conceptualize a complex issue into a coherent written statement and oral presentation.
PSO 3	Technology Skills: Students are competent in the uses of technology in modern organizational operations.
PSO 4	Entrepreneurship and Innovation: Students can demonstrate the fundamentals of creating and managing innovation, new business development, and high-growth potential entities.
PSO 5	Business Knowledge & Ethics: Students can demonstrate technical competence in domestic and global business through the study of major disciplines within the fields of business. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Management practice.
PSO 6	Environment and sustainability: Students can understand the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PSO 7	Individual and team work: Students can function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PSO 8	Project management and finance: Demonstrate knowledge and understanding of the management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.


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Course Outcomes (CO's): B.B.A

2024 - 2025

Course Title: Principle of Management

Course Code: DSC-101

S.No	Students will be able to
CO 1	The student learns to Integrate the theory & practice of management
CO 2	The student understanding various functions of Management
CO 3	The student learns the various Staffing and Organising Process.
CO 4	The student gains the ability to decide, Control & Coordinate as a Manager
CO 5	The student gains an insight into the emerging issues in Management theory & practice

Course Title: Basic of Marketing

Course Code: DSC-102

S.No	Students will be able to
CO 1	An awareness about the Marketing Concepts and Marketing Environment
CO 2	An understanding of the Bases for Market Segmentation
CO 3	An ability to formulate Strategies for Developing new Products Concepts, goods and Services that respond to evolving Market needs.
CO 4	To develop Strategies for the efficient and effective placement distribution of Products- Concepts- goods- and Services.
CO 5	To evaluate the impact of using different Marketing Strategies for a Product Concept, good and/or service on the (i) Finances- (ii) Return on Investment (ROI)- and (iii) the Business goals of an organization

Course Title: Business Economics

Course Code: DSC-103

S.No	Students will be able to
CO 1	The students gain the knowledge of Micro Economics concepts
CO 2	The students understand the demand & Elasticity of Demand
CO 3	The students gain the knowledge of Production and Cost concepts
CO 4	The students learn Economic Scale and scopes
CO 5	The student learn & understand the Marketing Structure & Pricing

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Course Title: Environmental Studies

Course Code: AECC-I

S.No	Students will be able to
CO 1	Understand the transactional character of the environmental problems and ways of addressing them-including the interaction across local and global scales
CO 2	Appreciate the ethical- cross-cultural- and historical context of environmental issues and the links between human and Natural systems.
CO 3	Understand the importance of sustainable development and modern approaches that enable humans to protect the environment.

Semester II

Course Title: Organizational Behaviour

Course Code: DSC-201

S.No	Students will be able to
CO 1	Demonstrate the applicability of the concept of Organizational behavior to understand the behavior of people in the organization.
CO 2	Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.
CO 3	Analyze the complexities associated with management of the group behavior in the organization.
CO 4	Demonstrate how the organizational behavior can integrate in understanding the motivation (why) behind behavior of people in the organization
CO 5	Demonstrate the factors influencing Organizational Culture

Course Title: Business statistics

Course Code: DSC-202

S.No	Students will be able to
CO 1	Students learn the Statistical Methods & also Demonstrate Tabulation & Presentation
CO 2	Students can demonstrate the techniques of Mean, Median & Mode
CO 3	Demonstrate the Characteristics, Types , construction of Factor reversal Test & Time Reversal Test
CO 4	Students learn the concepts of Sampling
CO 5	Students can demonstrate the Correlation & Regression Analysis.

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Course Title: Financial Accounting

Course Code: DSC-203

S.No	Students will be able to
CO 1	To Describe, explain and integrate fundamental concepts underlying accounting- financial management- marketing- and economics.
CO 2	Demonstrate the concepts of Accounting Information
CO 3	Demonstrate the concepts of Financial Statement of a Joint Stock Company as per the Companies Act 2013.
CO 4	Student gains the knowledge of Ratio Analysis
CO 5	Understand the need and importance of Accounting Standards

Course Title: Basic Computer Skills

Course Code: AECC-II

S.No	Students will be able to
CO 1	Identify basic terms- concepts- and functions of computer system components.
CO 2	Select and use the appropriate software application to complete a particular task such as Word- Processing skills to create- save- modify business documents.
CO 3	Identify basic concepts and procedures for creating- viewing- and managing files- and folders for different operating systems.

Semester III

Course Title: Human Resource Management

Course Code: DSC-301

S.No	Students will be able to
CO 1	Understand theories and practices in the field of Human Resources Management
CO 2	Identify different methods of developing Human Resources
CO 3	Demonstrate understanding of different appraisal methods
CO 4	Understand organizational culture and climate and its implications for HRM
CO 5	Understand the concept of the Performance Appraisal

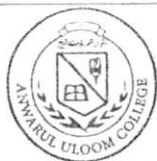

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Course Title: Information Technology for Business

Course Code:

S.No	Students will be able to
CO 1	Demonstrate that they can use a personal computer or mobile device for accessing the internet and use basic computer applications such as e-mail- Power Point- Excel and common webpage creation tools.
CO 2	Demonstrate that they can apply a variety of information technologies to their own work- demonstrating their competence in researching- creating- and presenting projects using a variety of digital information tools.
CO 3	Demonstrate that they can use digital technology in research- analysis- and critical inquiry.
CO 4	Demonstrate that they can evaluate and explain the on-going changes in digital technology and their impacts on society
CO 5	Demonstrate the techniques of Internet, Intranet & Extranet.

Course Title: Financial Management

Course Code: DSC-303

S.No	Students will be able to
CO 1	Apply project appraisal methods to cash flows.
CO 2	Understand the determinants of capital structure
CO 3	learn about dividend practices of companies
CO 4	Calculate working capital requirements of firms
CO 5	Student can communicate standard business terminology


Course Title: Communication Skills

Course Code: SEC-I

S.No	Students will be able to
CO 1	Students will understand the importance of communication skills
CO 2	Develop competence in oral- written and visual communication
CO 3	Understand current technology related to the communication field
CO 4	Demonstrate the concepts of Digital Media
CO 5	Students can demonstrate the Non – Verbal Communication


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**Course Title: Business Policy & Strategy****Course Code: SEC-II**

S.No	Students will be able to
CO 1	Critically analyze the internal and external environments in which businesses operate and assess their significance for strategic planning.
CO 2	Apply understanding for the theories- concepts and tools that support strategic management in organizations
CO 3	Build understanding of the nature and dynamics of strategy formulation and implementation processes at corporate and business level.
CO 4	Analyze strategy implementation alternatives for effective decision making
CO 5	Identify and evaluate different alternative strategies for effective decision making

Semester IV**Course Title: Business Laws & Ethics****Course Code: DSC-401**

S.No	Students will be able to
CO 1	Identify the fundamental legal principles behind contractual agreements
CO 2	Understand companies act and its implications for employers and employees
CO 3	Understand legal obligations of businesses towards consumers
CO 4	Demonstrate knowledge of negotiable instruments.
CO 5	Understand consumer protection laws and their implications

Course Title: Marketing Research**Course Code: DSC-402**

S.No	Students will be able to
CO 1	Apply a range of Quantitative and/or Qualitative Research Techniques to business and Management problems / issues
CO 2	Necessary critical thinking skills in order to evaluate different Research Approaches utilized in the service industries
CO 3	Identify the overall Process of designing a Research study from its inception to its Report.
CO 4	Define the Meaning of a variable, and to be able to identify independent, dependent, and mediating variables.
CO 5	Acquire familiarization with good practices in conducting a Qualitative Interview and observation

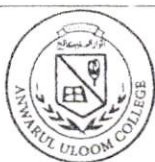
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Course Title: Management Science

Course Code: DSC-403

S.No	Students will be able to
CO 1	Demonstrate the functions of Product Life Cycle
CO 2	Student learns the concept and various techniques of methods analysis and work measurement.
CO 3	Demonstrate the Economic Order Quantity, Selective Inventory Control Techniques: ABC- VED- FNSD & XYZ.
CO 4	Student learns the Types of Operation Research Models, Linear Programming: Mathematical model- Formulation of LPP- assumptions underlying LPP.
CO 5	Student gains the knowledge of Types of Operation Research Models, Linear Programming: Mathematical model.

Course Title: Leadership and Management Skills

Course Code: SEC-III

S.No	Students will be able to
CO 1	Student will understand and use the process of effective decision making
CO 2	Develop self-awareness and self-management skills
CO 3	Demonstrate effective interpersonal competence
CO 4	Examine various leadership models and understand/assess their skills- strengths and abilities that affect their own leadership style and can create their leadership vision
CO 5	Learn and demonstrate a set of practical skills such as time management- self management- handling conflicts- team leadership- etc.

Course Title: Basic Quality Management

Course Code: SEC-IV

S.No	Students will be able to
CO 1	Students get to know about the evolution and importance of quality management.
CO 2	Helps the students get aware of various tools used for quality management in the organizations.
CO 3	Students will be able to know about the quantitative and qualitative techniques used to measure the effectiveness of quality management tools.
CO 4	Students will be able to use the six sigma applications for quality check.
CO 5	Students can understand the use of total quality management in various service organizations

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Semester V

Course Title: Mobile Commerce

Course Code: GE

S.No	Students will be able to
CO 1	Learn the fundamental principles of e-business and e-commerce.
CO 2	Understand the impact of information and communication technologies on business.
CO 3	Develop an understanding of the tools and services used by virtual e-commerce sites.
CO 4	Awareness of the developments in M-Commerce Applications
CO 5	Awareness of the developments in Wireless technology

Course Title: Entrepreneurship Development (OR)

Course Code: DSE-501

S.No	Students will be able to
CO 1	A student learns the concepts and motives of Entrepreneurship
CO 2	Students can learn more about types of Enterprises and growth
CO 3	Knowledge of entrepreneurship prepares the entrepreneurial bent of mind
CO 4	Problems and perspectives of the entrepreneurship can be understood
CO 5	It is also possible to students understand and comprehend on venture capital fund.

Course Title: Business Analytics

Course Code: DSE- 501

S.No	Students will be able to
CO 1	To understand the Business Analytics in practice
CO 2	To understand concepts of Descriptive Analytics
CO 3	To learn about Data mining for business
CO 4	To understand concepts of Prescriptive Analytics
CO 5	Explain the use of R environment

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Course Title: Financial Market & Services (F)

Course Code: DSE-502

S.No	Students will be able to
CO 1	Understand what a financial system is and does, and the distinct functions of each component.
CO 2	Understand some important financial instruments and the economic principles underlying their use.
CO 3	Understand the classification of Leasing.
CO 4	Learn about the categories of Merchant Banking and their functions
CO 5	Understand the process of IPO

Course Title: Analysis of investment in Financial Assets (F)

Course Code: DSE-503

S.No	Students will be able to
CO 1	To make calculations for Risk Return of Individual Stocks
CO 2	To determine the Intrinsic Value of Bonds and also finding the YTM
CO 3	To determine the Intrinsic Value of Equity by applying different methods
CO 4	To apply the concept of diversification for portfolio valuation
CO 5	Demonstrate the various portfolio theories and evaluation methods

Semester VI

Course Title: Supply Chain Management (OR)

Course Code: DSE-601

S.No	Students will be able to
CO 1	Students acquires a holistic understanding of supply chain management and the role of logistics.
CO 2	Students will know the basic drivers of performance of SCM in effective manner
CO 3	Understands role of global sourcing in making supply chain cost effective
CO 4	Gain a knowledge of distribution and inventory strategy of business.
CO 5	Gain a knowledge of Customer Service Strategy.

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Course Title: Business Intelligence and Data Visualisation

Course Code: DSC- 601

S.No	Students will be able to
CO 1	Apply visualization techniques for various data analysis tasks.
CO 2	Presenting data through charts and maps
CO 3	Presenting the data through tables, graphs, scatter plots.
CO 4	Explain the Logical Functions
CO 5	Design information dashboard and Animation.

Course Title: Banking (F)

Course Code: 602

S.No	Students will be able to
CO 1	The learners will be able to apply necessary skills in managing a financial service company
CO 2	They will be able to apply financial concepts- theories and tools
CO 3	To evaluate the legal- ethical and economic environment related to financial services.
CO 4	Demonstrate the modes of Loans.
CO 5	Demonstrate the concepts of Negotiable Instrument

Course Title: Insurance (F)

Course Code: DSE- 603

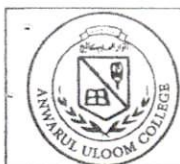
S.No	Students will be able to
CO 1	Understand the role and importance of insurance, its types
CO 2	Understand the role of IRDA
CO 3	Learn about the types of life insurance and general insurance
CO 4	Learn about the terms in Policy documents
CO 5	Understand the concepts of Assignment and Nomination

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Department of Business Administration

2024 - 2025

Programme: BBA- (B.B.M)

Programme-Specific Outcomes for B.B.M

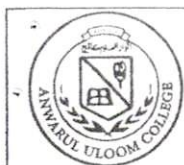
S. No	Students completing B.B.M will be able to
PSO 1	Critical Thinking Skills: Students are able to define, analyze, and devise solutions for structured and unstructured business problems and issues using cohesive and logical reasoning patterns for evaluating information, materials, and data.
PSO 2	Communication Skills: Students are able to conceptualize a complex issue into a coherent written statement and oral presentation.
PSO 3	Technology Skills: Students are competent in the uses of technology in modern organizational operations.
PSO 4	Entrepreneurship and Innovation: Students can demonstrate the fundamentals of creating and managing innovation, new business development, and high-growth potential entities.
PSO 5	Business Knowledge & Ethics: Students can demonstrate technical competence in domestic and global business through the study of major disciplines within the fields of business. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Management practice.
PSO 6	Environment and sustainability: Students can understand the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PSO 7	Individual and team work: Students can function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PSO 8	Project management and finance: Demonstrate knowledge and understanding of the management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.


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Course Outcomes (CO's): B.B.M

2024 - 2025

Course Title: Principle of Management

Course Code: DSC-101

S.No	Students will be able to
CO 1	The student learns to Integrate the theory & practice of management
CO 2	The student understanding various functions of Management
CO 3	The student learns the various Staffing and Organising Process.
CO 4	The student gains the ability to decide, Control & Coordinate as a Manager
CO 5	The student gains an insight into the emerging issues in Management theory & practice

Course Title: Financial Accounting

Course Code: DSC-102

S.No	Students will be able to
CO 1	Students can demonstrate the concepts of Financial Accounting
CO 2	Demonstrate the concepts of Accounting Information
CO 3	Demonstrate the concepts of Financial Statement of a Joint Stock Company as per the Companies Act 2013.
CO 4	Student gains the knowledge of Ratio Analysis
CO 5	Students can demonstrate about Indian Accounting Standards.

Course Title: Business Economics

Course Code: DSC-103

S.No	Students will be able to
CO 1	The students gain the knowledge of Micro Economics concepts
CO 2	The students understand the demand & Elasticity of Demand
CO 3	The students gain the knowledge of Production and Cost concepts
CO 4	The students learn Economic Scale and scopes
CO 5	The student learn & understand the Marketing Structure & Pricing


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Course Title: Business Correspondence and Communication

Course Code:DSC-203

S.No	Students will be able to
CO 1	Students are able to demonstrate a good understanding of: effective business writing
CO 2	Effective business communications
CO 3	Research approaches and information collection
CO 4	Developing and delivering effective presentations, effective interpersonal communications skills that maximize team effectiveness
CO 5	Good time management & effective problem solving

Course Title: Basic Computer Skills

Course Code:AECC-II

S.No	Students will be able to
CO 1	Identify basic terms- concepts- and functions of computer system components.
CO 2	Select and use the appropriate software application to complete a particular task such as Word- Processing skills to create- save- modify business documents.
CO 3	Identify basic concepts and procedures for creating- viewing- and managing files- and folders for different operating systems.

Semester III

Course Title:Human Resource Management

Course Code: DSC-301

S.No	Students will be able to
CO 1	Understand theories and practices in the field of Human Resources Management
CO 2	Identify different methods of developing Human Resources
CO 3	Demonstrate understanding of different appraisal methods
CO 4	Understand organizational culture and climate and its implications for HRM
CO 5	Understand the concept of the Performance Appraisal

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Course Title: Environmental Studies

Course Code: AECC-I

S.No	Students will be able to
CO 1	Understand the transactional character of the environmental problems and ways of addressing them- including the interaction across local and global scales
CO 2	Appreciate the ethical- cross-cultural- and historical context of environmental issues and the links between human and Natural systems.
CO 3	Understand the importance of sustainable development and modern approaches that enable humans to protect the environment.

Semester II

Course Title: Fundamental of Marketing

Course Code: DSC-201

S.No	Students will be able to
CO 1	The students learn & understanding about Marketing Environment
CO 2	An understanding about bases of Market Segmentation
CO 3	The students learns & Demonstrate the Stages in New Product Development
CO 4	The students understanding and learning the Product Life Cycle(PLC) , Price and Pricing strategies
CO 5	Students demonstrate about the Promotion Mix.

Course Title: Business statistics

Course Code: DSC-202

S.No	Students will be able to
CO 1	Students learn the Statistical Methods & also Demonstrate Tabulation & Presentation
CO 2	Students can demonstrate the techniques of Mean, Median & Mode
CO 3	Demonstrate the Characteristics, Types , construction of Factor reversal Test & Time Reversal Test
CO 4	Students learn the concepts of Sampling
CO 5	Students can demonstrate the Correlation & Regression Analysis.


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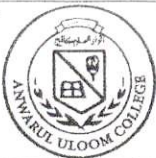
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Course Title: Information Technology for Business

Course Code:

S.No	Students will be able to
CO 1	Demonstrate that they can use a personal computer or mobile device for accessing the internet and use basic computer applications such as e-mail- Power Point- Excel and common webpage creation tools.
CO 2	Demonstrate that they can apply a variety of information technologies to their own work- demonstrating their competence in researching- creating- and presenting projects using a variety of digital information tools.
CO 3	Demonstrate that they can use digital technology in research- analysis- and critical inquiry.
CO 4	Demonstrate that they can evaluate and explain the on-going changes in digital technology and their impacts on society
CO 5	Demonstrate the techniques of Internet, Intranet & Extranet.

Course Title: Accounting for Management

Course Code:

S.No	Students will be able to
CO 1	The student gains an understanding of Managerial Accounting
CO 2	The student gains the ability to analyze Financial Statements.
CO 3	The student learns the application of Ratio Analysis
CO 4	The student learns to apply Cash Flow & Fund Flow Analysis in Managerial decision
CO 5	The student gains the ability to use M.I.S.

Course Title: Communication Skills

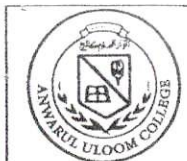
Course Code: SEC-I

S.No	Students will be able to
CO 1	Students will understand the importance of communication skills
CO 2	Develop competence in oral- written and visual communication
CO 3	Understand current technology related to the communication field
CO 4	Demonstrate the concepts of Digital Media
CO 5	Students can demonstrate the Non – Verbal Communication

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Course Title: Business Policy & Strategy

Course Code: SEC-II

S.No	Students will be able to
CO 1	Critically analyze the internal and external environments in which businesses operate and assess their significance for strategic planning.
CO 2	Apply understanding for the theories- concepts and tools that support strategic management in organizations
CO 3	Build understanding of the nature and dynamics of strategy formulation and implementation processes at corporate and business level.
CO 4	Analyze strategy implementation alternatives for effective decision making
CO 5	Identify and evaluate different alternative strategies for effective decision making

Semester IV

Course Title: Business Laws & Ethics

Course Code: DSC-401

S.No	Students will be able to
CO 1	Identify the fundamental legal principles behind contractual agreements
CO 2	Understand companies act and its implications for employers and employees
CO 3	Understand legal obligations of businesses towards consumers
CO 4	Demonstrate knowledge of negotiable instruments.
CO 5	Understand consumer protection laws and their implications

Course Title: Digital Marketing

Course Code: DSC-402

S.No	Students will be able to
CO 1	Apply digital marketing in the globalized market
CO 2	Demonstrate Channels of Digital Marketing
CO 3	Design and develop Digital marketing plan
CO 4	Understand Search engine marketing
CO 5	Acquainted with Online Advertising

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Course Title: Financial Management

Course Code: DSC-403

S.No	Students will be able to
CO 1	Apply project appraisal methods to cash flows.
CO 2	Understand the determinants of capital structure
CO 3	learn about dividend practices of companies
CO 4	Calculate working capital requirements of firms
CO 5	Student can communicate standard business terminology

Course Title: Leadership and Management Skills

Course Code: SEC-III

S.No	Students will be able to
CO 1	Student will understand and use the process of effective decision making
CO 2	Develop self-awareness and self-management skills
CO 3	Demonstrate effective interpersonal competence
CO 4	Examine various leadership models and understand/assess their skills- strengths and abilities that affect their own leadership style and can create their leadership vision
CO 5	Learn and demonstrate a set of practical skills such as time management- self management- handling conflicts- team leadership- etc.

Course Title: Basic Quality Management

Course Code: SEC-IV

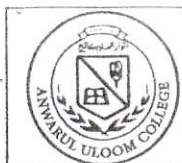
S.No	Students will be able to
CO 1	Students get to know about the evolution and importance of quality management.
CO 2	Helps the students get aware of various tools used for quality management in the organizations.
CO 3	Students will be able to know about the quantitative and qualitative techniques used to measure the effectiveness of quality management tools.
CO 4	Students will be able to use the six sigma applications for quality check.
CO 5	Students can understand the use of total quality management in various service organizations

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Semester V

Course Title: Mobile Commerce

Course Code: GE

S.No	Students will be able to
CO 1	Learn the fundamental principles of e-business and e-commerce.
CO 2	Understand the impact of information and communication technologies on business.
CO 3	Develop an understanding of the tools and services used by virtual e-commerce sites.
CO 4	Awareness of the developments in M-Commerce Applications
CO 5	Awareness of the developments in Wireless technology

Course Title: Entrepreneurship and Small Business Management (OR)

Course Code: DSE-501

S.No	Students will be able to
CO 1	To gained the knowledge of Entrepreneurship.
CO 2	Students are knowledge the women empowerment in SSI
CO 3	To demonstrate the importance of Small Scale Industry.
CO 4	Students equipped with practical experience
CO 5	To Demonstrate about the regulation of Government Policy

Course Title: Business Analytics

Course Code: DSE- 501

S.No	Students will be able to
CO 1	To understand the Business Analytics in practice
CO 2	To understand concepts of Descriptive Analytics
CO 3	To learn about Data mining for business
CO 4	To understand concepts of Prescriptive Analytics
CO 5	Explain the use of R environment

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Course Title: Financial Market & Services (F)

Course Code: DSE-502

S.No	Students will be able to
CO 1	Understand what a financial system is and does, and the distinct functions of each component.
CO 2	Understand some important financial instruments and the economic principles underlying their use.
CO 3	Understand the classification of Leasing.
CO 4	Learn about the categories of Merchant Banking and their functions
CO 5	Understand the process of IPO

Course Title: Analysis of investment in Financial Assets (F)

Course Code: DSE-503

S.No	Students will be able to
CO 1	To make calculations for Risk Return of Individual Stocks
CO 2	To determine the Intrinsic Value of Bonds and also finding the YTM
CO 3	To determine the Intrinsic Value of Equity by applying different methods
CO 4	To apply the concept of diversification for portfolio valuation
CO 5	Demonstrate the various portfolio theories and evaluation methods

Semester VI

Course Title: Logistic and Supply Chain Management (OR)

Course Code: DSE-601

S.No	Students will be able to
CO 1	Students acquires a holistic understanding of supply chain management and the role of logistics.
CO 2	Students will know the basic drivers of performance of SCM in effective manner
CO 3	Understands role of global sourcing in making supply chain cost effective
CO 4	Gain a knowledge of distribution and inventory strategy of business
CO 5	Gain a knowledge of Customer Service Strategy.



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Course Title: Business Intelligence and Data Visualisation

Course Code: DSC- 601

S.No	Students will be able to
CO 1	Apply visualization techniques for various data analysis tasks.
CO 2	Presenting data through charts and maps
CO 3	Presenting the data through tables, graphs, scatter plots.
CO 4	Explain the Logical Functions
CO 5	Design information dashboard and Animation.

Course Title: Banking (F)

Course Code: 602

S.No	Students will be able to
CO 1	The learners will be able to apply necessary skills in managing a financial service company
CO 2	They will be able to apply financial concepts- theories and tools
CO 3	To evaluate the legal- ethical and economic environment related to financial services.
CO 4	Demonstrate the modes of Loans.
CO 5	Demonstrate the concepts of Negotiable Instrument

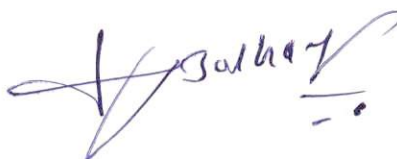
Course Title: Insurance (F)

Course Code: DSE- 603

S.No	Students will be able to
CO 1	Understand the role and importance of insurance, its types
CO 2	Understand the role of IRDA
CO 3	Learn about the types of life insurance and general insurance
CO 4	Learn about the terms in Policy documents
CO 5	Understand the concepts of Assignment and Nomination


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Course Title: Project – Viva Voce

Course Code: PR -604

S.No	Students will be able to
CO 1	Choose a project topic that is relevant to the current business environment and has the potential to make a meaningful impact. Consider how your project could contribute to solving real-world problems, advancing knowledge in your field, or addressing industry needs.
CO 2	Assess the feasibility of potential project topics based on factors such as access to data, resources, and expertise. Ensure that the chosen topic is manageable within the constraints of your time, budget, and available resources.
CO 3	Generate a list of potential project ideas and topics based on your research and interests. Brainstorm creative solutions, innovative approaches, or unique angles to explore within your chosen area of business.
CO 4	Review a list of potential project ideas and narrow down your options based on criteria such as feasibility, relevance, interest level, and potential impact. Consider seeking input from mentors, advisors, or peers to help you make a decision.
CO 5	Clearly define the objectives and goals of your business project. Determine what you hope to accomplish, what questions you aim to answer, and what outcomes you seek to achieve through your research and analysis.

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Department of Business Administration

2024 - 2025

Programme: BBA (AI & DS)

Programme-Specific Outcomes for B.B.A (AI & DS)

S. No	Students completing B.B.A (AI & DS) will be able to
PSO 1	Critical Thinking Skills: Students are able to define, analyze, and devise solutions for structured and unstructured business problems and issues using cohesive and logical reasoning patterns for evaluating information, materials, and data.
PSO 2	Communication Skills: Students are able to conceptualize a complex issue into a coherent written statement and oral presentation.
PSO 3	Technology Skills: Students are competent in the uses of technology in modern organizational operations.
PSO 4	Entrepreneurship and Innovation: Students can demonstrate the fundamentals of creating and managing innovation, new business development, and high-growth potential entities.
PSO 5	Business Knowledge & Ethics: Students can demonstrate technical competence in domestic and global business through the study of major disciplines within the fields of business. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Management practice.
PSO 6	Environment and sustainability: Students can understand the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PSO 7	Individual and team work: Students can function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PSO 8	Project management and finance: Demonstrate knowledge and understanding of the management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

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Course Outcomes (CO's): B.B.A
2024 - 2025

Course Title: Principle of Management
Course Code: DSC-101

S.No	Students will be able to
CO 1	The student learns to Integrate the theory & practice of management
CO 2	The student understanding various functions of Management
CO 3	The student learns the various Staffing and Organising Process.
CO 4	The student gains the ability to decide, Control & Coordinate as a Manager
CO 5	The student gains an insight into the emerging issues in Management theory & practice

Course Title: Basic of Marketing
Course Code: DSC-102

S.No	Students will be able to
CO 1	An awareness about the Marketing Concepts and Marketing Environment
CO 2	An understanding of the Bases for Market Segmentation
CO 3	An ability to formulate Strategies for Developing new Products Concepts, goods and Services that respond to evolving Market needs.
CO 4	To develop Strategies for the efficient and effective placement distribution of Products- Concepts- goods- and Services.
CO 5	To evaluate the impact of using different Marketing Strategies for a Product Concept, good and/or service on the (i) Finances- (ii) Return on Investment (ROI)- and (iii) the Business goals of an organization

Course Title: Business Economics
Course Code: DSC-103

S.No	Students will be able to
CO 1	The students gain the knowledge of Micro Economics concepts
CO 2	The students understand the demand & Elasticity of Demand
CO 3	The students gain the knowledge of Production and Cost concepts
CO 4	The students learn Economic Scale and scopes
CO 5	The student learn & understand the Marketing Structure & Pricing

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Course Title: Environmental Studies

Course Code: AECC-I

S.No	Students will be able to
CO 1	Understand the transactional character of the environmental problems and ways of addressing them-including the interaction across local and global scales
CO 2	Appreciate the ethical- cross-cultural- and historical context of environmental issues and the links between human and Natural systems.
CO 3	Understand the importance of sustainable development and modern approaches that enable humans to protect the environment.

Semester II

Course Title: Business statistics

Course Code: DSC-201

S.No	Students will be able to
CO 1	Students learn the Statistical Methods & also Demonstrate Tabulation & Presentation
CO 2	Students can demonstrate the techniques of Mean, Median & Mode
CO 3	Demonstrate the Characteristics, Types, construction of Factor reversal Test & Time Reversal Test
CO 4	Students learn the concepts of Sampling
CO 5	Students can demonstrate the Correlation & Regression Analysis.

Course Title: Financial Accounting

Course Code: DSC-202

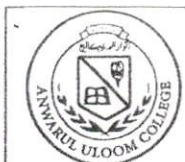
S.No	Students will be able to
CO 1	To Describe, explain and integrate fundamental concepts underlying accounting- financial management- marketing- and economics.
CO 2	Demonstrate the concepts of Accounting Information
CO 3	Demonstrate the concepts of Financial Statement of a Joint Stock Company as per the Companies Act 2013.
CO 4	Student gains the knowledge of Ratio Analysis
CO 5	Understand the need and importance of Accounting Standards

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Course Title:IT for Business

Course Code: 203

S.No	Students will be able to
CO 1	Demonstrate that they can use a personal computer or mobile device for accessing the internet and use basic computer applications such as e-mail- Power Point- Excel and common webpage creation tools.
CO 2	Demonstrate that they can apply a variety of information technologies to their own work- demonstrating their competence in researching- creating- and presenting projects using a variety of digital information tools.
CO 3	Demonstrate that they can use digital technology in research- analysis- and critical inquiry.
CO 4	Demonstrate that they can evaluate and explain the on-going changes in digital technology and their impacts on society
CO 5	Demonstrate the techniques of Internet, Intranet & Extranet.

Course Title: Basic Computer Skills

Course Code:AECC-II

S.No	Students will be able to
CO 1	Identify basic terms- concepts- and functions of computer system components.
CO 2	Select and use the appropriate software application to complete a particular task such as Word- Processing skills to create- save- modify business documents.
CO 3	Identify basic concepts and procedures for creating- viewing- and managing files- and folders for different operating systems.

Semester III

Course Title:Human Resource Management

Course Code: DSC-301

S.No	Students will be able to
CO 1	Understand theories and practices in the field of Human Resources Management
CO 2	Identify different methods of developing Human Resources
CO 3	Demonstrate understanding of different appraisal methods
CO 4	Understand organizational culture and climate and its implications for HRM
CO 5	Understand the concept of the Performance Appraisal


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Course Title: Financial Market & Services

Course Code: DSC-302

S.No	Students will be able to
CO 1	Understand what a financial system is and does, and the distinct functions of each component.
CO 2	Understand some important financial instruments and the economic principles underlying their use.
CO 3	Understand the classification of Leasing.
CO 4	Learn about the categories of Merchant Banking and their functions
CO 5	Understand the process of IPO

Course Title: Python Programming

Course Code: DSC-303

S.No	Students will be able to
CO 1	Develop algorithmic solutions to simple computational problems.
CO 2	Develop and execute simple Python programs
CO 3	Develop simple Python programs for solving problems
CO 4	Structure a Python program into functions
CO 5	Represent compound data using Python lists, tuples, dictionaries. Read and write data from/to files in Python Programs

Course Title: Communication Skills

Course Code: SEC-I

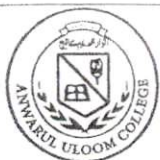
S.No	Students will be able to
CO 1	Students will understand the importance of communication skills
CO 2	Develop competence in oral- written and visual communication
CO 3	Understand current technology related to the communication field
CO 4	Demonstrate the concepts of Digital Media
CO 5	Students can demonstrate the Non – Verbal Communication

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Course Title: Business Policy & Strategy

Course Code: SEC-II

S.No	Students will be able to
CO 1	Critically analyze the internal and external environments in which businesses operate and assess their significance for strategic planning.
CO 2	Apply understanding for the theories- concepts and tools that support strategic management in organizations
CO 3	Build understanding of the nature and dynamics of strategy formulation and implementation processes at corporate and business level.
CO 4	Analyze strategy implementation alternatives for effective decision making
CO 5	Identify and evaluate different alternative strategies for effective decision making

Semester IV

Course Title: Business Laws & Ethics

Course Code: DSC-401

S.No	Students will be able to
CO 1	Identify the fundamental legal principles behind contractual agreements
CO 2	Understand companies act and its implications for employers and employees
CO 3	Understand legal obligations of businesses towards consumers
CO 4	Demonstrate knowledge of negotiable instruments.
CO 5	Understand consumer protection laws and their implications

Course Title: Marketing Research

Course Code: DSC-402

S.No	Students will be able to
CO 1	Apply a range of Quantitative and/or Qualitative Research Techniques to business and Management problems / issues
CO 2	Necessary critical thinking skills in order to evaluate different Research Approaches utilized in the service industries
CO 3	Identify the overall Process of designing a Research study from its inception to its Report.
CO 4	Define the Meaning of a variable, and to be able to identify independent, dependent, and mediating variables.
CO 5	Acquire familiarization with good practices in conducting a Qualitative Interview and observation

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Course Title: Introduction to Data Science

Course Code: DSC-403

S.No	Students will be able to
CO 1	Student equipped with the knowledge of data science operation, components and Tools.
CO 2	Demonstrate Statistical Models and Machine Learning Techniques of Regression.
CO 3	Students equipped with the knowledge of Data science Life Cycle and good practices.
CO 4	Demonstrate the tools such as Python, IDE & Python Libraries.
CO 5	Students are knowledged with basics of Supervised and Supervised Learning

Course Title:Leadership and Management Skills

Course Code: SEC-III

S.No	Students will be able to
CO 1	Student will understand and use the process of effective decision making
CO 2	Develop self-awareness and self-management skills
CO 3	Demonstrate effective interpersonal competence
CO 4	Examine various leadership models and understand/assess their skills- strengths and abilities that affect their own leadership style and can create their leadership vision
CO 5	Learn and demonstrate a set of practical skills such as time management- self management- handling conflicts- team leadership- etc.

Course Title: Basic Quality Management

Course Code: SEC-IV

S.No	Students will be able to
CO 1	Students get to know about the evolution and importance of quality management.
CO 2	Helps the students get aware of various tools used for quality management in the organizations.
CO 3	Students will be able to know about the quantitative and qualitative techniques used to measure the effectiveness of quality management tools.
CO 4	Students will be able to use the six sigma applications for quality check.
CO 5	Students can understand the use of total quality management in various service organizations

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Course Title : ADVANCED EXCEL WITH AI

Course Code: DSC203

Course Objectives:

- CO1: The Objective of this course is to familiarized management students to basics of Excel
CO2: To familiarized the students with Advanced Excel Tools.
CO3: Student can learn the concepts of data validations and working with templates.
CO4: To impart the students the knowledge of Advanced Excel & its Applications.
CO5: To familiarized the students with the basics of Artificial Intelligence.

Course Outcomes:

At the end of the course the students will be able to: -

- CO1: To demonstrate that history of Excel and Advanced Excel Concepts.
CO2: To demonstrate about the usc of Advanced Excel Tools.
CO3: To demonstrating the Reports and Tables.
CO4: To demonstrate that they can use of sorting data and its applications.
CO5: To demonstrate that they know the basic concepts of AI.



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ANWARUL ULOOM COLLEGE

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ELECTRONICS DEPARTMENT

Under Graduate - B.Sc. (M.P.E ** M.E.Cs.)

Program Educational Objectives - Outcomes (2024 - 2025)

Course Structure:

B.Sc. Electronics is a three year course, generally divided in 6 semesters. The course delivery methods in the program include classroom lectures, discussions, presentations and industry visits.

Programme Objective: B.Sc.

1. Read, understand and interpret physical information – verbal, mathematical and graphical.
2. Impart skills required to gather information from resources and use them.
3. To give need based education in science of the highest quality at the undergraduate level.
4. Perform experiments and interpret the results of observation, including making an assessment of experimental uncertainties.
5. Provide an intellectually stimulating environment to develop skills and enthusiasms of students to the best of their potential.

Programme Outcomes: B.Sc.

- PO-1. This course forms the basis of science and comprises of the subjects like Mathematics, Physics, Electronics, Chemistry, Biology and Zoology.
- PO-2. 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
- PO-3. After the completion of this course students have the option to go for higher studies i.e. M. Sc and then do some research for the welfare of mankind
- PO-4. After higher studies students can join as scientist and can even look for professional job oriented courses.
- PO-5. This course also offers opportunities for serving in Indian Army, Indian Navy, Indian Air Force as officers.
- PO-6. Students after this course have the the option to join Indian Civil Services as IAS, IFS etc..
- PO-7. Science graduates can go to serve in industries or may opt for establishing their own industrial unit.
- PO-8. Apart from the research jobs, students can also work or get jobs in Marketing, Business & Other technical fields
- PO-9. Science graduates also recruited in the bank sector to work as customer service executives. Students can also find employment in government sectors.
- PO-10. Often, in some reputed universities or colleges in India and abroad the students are recruited directly by big MNC's after their completion of the course.

ANWARUL ULOOM COLLEGE, DEPARTMENT OF ELECTRONICS

Head of the Dept. of Electronics
Anwar-ul-Uloom College, Mallepalli
Hyderabad.

Prof. B. RAJENDRA NAIK
Principal Investigator
Dept. of Electronics and Communication Engg.
Univ. College of Engineering (A)
Osmania University, Hyderabad. 7. T.S.

B.Sc. I year - Semester I
Paper - I
Code No. 6112
Circuit Analysis

Course Objective: Circuit Analysis

To develop problem solving skills and understanding of circuit theory through the application of techniques and principles of electrical circuit analysis to common circuit problems.

1. To develop an understanding of the fundamental laws and elements of electric circuits.
2. To learn the energy properties of electric elements and the techniques to measure voltage and current.
3. To understand waveforms, signals, and transient, and steady-state responses of RLC circuits.
4. To develop the ability to apply circuit analysis to DC and AC circuits.
5. To understand advanced mathematical methods such as Laplace and Fourier transforms along with linear algebra and differential equations techniques for solving circuits problems.

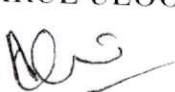
Course Outcomes: Circuit Analysis

- CO-1. Determine parameters such as node voltages, branch currents, and electric power in electric circuits using Ohm's law and Kirchhoff's current and voltage laws.
- CO-2. Analyze AC and DC circuit using mesh analysis, nodal analysis, superposition, Thevenin, Norton, and source transformation techniques.
- CO-3. Determine natural and step responses of RC, RL, and RLC circuits.
- CO-4. Identify appropriate circuit analysis techniques for analyzing DC/AC circuits.
- CO-5. Analyze AC circuits using the frequency domain approach.
- CO-6. Calculate AC powers in ac circuits.
- CO-7. Use Laboratory instruments such as multimeters, oscilloscope, function generators, power supplies, etc.
- CO-8. Perform experiments to validate the fundamentals of electric circuit theory.

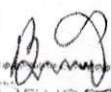
Learning Outcomes: Circuit Analysis

- LO-1. To be able to understand basic electrical properties.
- LO-2. To be able to analyze electrical circuits.

ANWARUL ULOOM COLLEGE, DEPARTMENT OF ELECTRONICS


Head of the Department, Electronics
Anwar-ul-Uloom College, Malleshpalli
Hyderabad.




Prof. B. RAJENDRA NAIK
Principal Investigator
Dept. of Electronics and Communication Engg.
Osmania Univ. College of Engineering (A)
Osmania University, Hyderabad-500 007, T.S.

BSC I Year-Electronics
Paper- II Electronic Devices
II -Semester

Total number of hours : 56
No of hours per week: 4
Credits :4

UNIT-I

PN Junction: Formation of PN junction, Depletion region, Junction capacitance, Diode equation (no derivation) Effect of temperature on reverse saturation current, V - I characteristics and simple applications of i) Junction diode, ii) Zener diode, iii) Tunnel diode and iv) Varactor diode.

UNIT-II

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), CE configuration as two port network, h – parameter model and its equivalent circuit. Determination of h – parameters from the characteristics. Load line analysis (AC and DC). Transistor Biasing – Fixed and self bias.

UNIT- III

Field Effect Transistor (FET): 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 , output and transfer characteristics Application of MOSFET as a switch .

Uni Junction Transistor (UJT): Construction and working of UJT and its Characteristics. Application of UJT as a relaxation oscillator.

UNIT- IV

Silicon Controlled Rectifier (SCR): 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).

Books Recommended:

Books Recommended:

- 1) Millman and Halkias, "Electronic Devices and circuits", 3rd Edition TMH, 1967.
- 2) V.K.Mehta & Rohit Mehta, "Principles of Electronics", 12 Edition S Chand 1995.

Department of Electronics

Head of the Department of Electronics
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Principal Investigator
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B.Sc. II year - Semester III
Paper - III
Code No. 6312
Power Supplies And Analog Circuits


Course Objective: Power Supplies and Analog Circuits

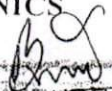
1. Familiarized with basic integrated circuit components, its designing & packaging.
2. To understand operational amplifier and its applications.
3. Understand various operating modes of Op-amp and its linear/non-linear applications.
4. To understand differential amplifiers using BJT and MOSFET.
5. Transistor

Course Outcomes: Power Supplies and Analog Circuits

- CO-1. Students can demonstrate ability to identify, formulate and solve engineering problems in the field of analog devices.
- CO-2. Equip the skill to design and develop a regulated power supply.
- CO-3. Develop analytical capability to analyze feedback in amplifiers.
- CO-4. Understanding and designing of multi-vibrator and power supply circuits.
- CO-5. Acquire knowledge on commonly used linear and non-linear applications of Opamps and Comparators.
- CO-6. Students can show ability to participate and succeed in project contests.

ANWARUL ULOOM COLLEGE, DEPARTMENT OF ELECTRONICS


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B.Sc. II year - Semester IV
Paper - IV
Code No. 6412
Applications of Operational
Amplifier and Communication

Course Objective: Applications of Operational Amplifier and Communication

1. Familiarized with basic integrated circuit components, its designing & packaging.
2. To understand operational amplifier and its applications.
3. Understand various operating modes of Op-amp and its linear/non-linear applications.
4. This paper aims to describe the concepts of electronics in communication and communication techniques based on Analog Modulation, Analog and digital Pulse Modulation.
5. He / she shall develop an understanding of various aspects of harmonic.
6. Gain an insight on the use of different modulation and demodulation techniques used in analog communication.

Course Outcomes: Applications of Operational Amplifier and Communication

- CO-1. Students can demonstrate ability to identify, formulate and solve engineering problems in the field of analog devices.
- CO-2. Acquire knowledge on commonly used linear and non-linear applications of Op amps and Comparators.
- CO-3. Students will be able to understand and design circuits using 555 Timer.
- CO-4. Design and test PLL (Phase-Locked Loop) application circuits including FM Demodulation.
- CO-5. The students will get basic idea about the op amp. The students can design an analog system using Op amp.
- CO-6. Students can show ability to participate and succeed in project contests.



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B.Sc. III year - Semester V (A)
Paper - V (A)
Code No. 6512
Digital Electronics

Course Objective: Digital Electronics

1. To acquire the basic knowledge of digital logic levels and application of knowledge to understand digital electronics circuits.
2. To prepare students to perform the analysis and design of various digital electronic circuits.
3. To Work with a variety of number systems and numeric representations, including signed and unsigned binary, hexadecimal, 2's complement.
4. To introduce the methods for simplifying Boolean expressions. To introduce basic postulates of Boolean algebra and show the correlation between Boolean expression.
5. To outline the formal procedures for the analysis and design of combinational circuits and sequential circuits.

Course Outcomes: Digital Electronics

After studying this course the students would gain enough knowledge

- CO-1. Have a thorough understanding of the fundamental concepts and techniques used in digital electronics.
- CO-2. Solve Boolean expressions using the theorems and postulates of Boolean algebra and to minimize combinational functions.
- CO-3. Ability to understand the principles of digital circuits.
- CO-4. Design and analyze combinational circuits and to use standard combinational functions/building blocks to build larger more complex circuits.
- CO-5. Ability to understand the logic behind the operation of counters.
- CO-6. To develop skill to build, and troubleshoot digital circuits.

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B.Sc. III year - Semester VI (A)
Paper - VI (A)
Code No. 6613
Microcontroller - 8051

Course Objective: Microcontroller - 8051

1. The paper aims at the functional operations of microcontroller – 8051
2. Learn about the microprocessors and the organization of microprocessor based systems.
3. Learn the architecture the 8051 is it's simplified architecture and instruction set.
4. Design and implement 8051 microcontroller based systems.
5. To learn interfacing of real world input and output devices.
6. To study various hardware & software tools for developing applications.


Course Outcomes: Microcontroller - 8051

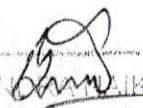
Upon completion of this course, the students are able to:

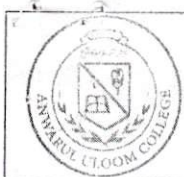
- CO-1. Learn importance of Microcontroller in designing real time applications.
- CO-2. Understand function of Microcontroller.
- CO-3. Describe the architecture and instruction set of ARM microcontroller.
- CO-4. Organization of Intel 8051 microcontroller, its architecture, instruction set, programming and its memory organization, timing diagram
- CO-5. Design Memory Interfacing circuits.
- CO-6. Design and implement 8051 microcontroller based systems.



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Department of Mathematics


2024 – 2025


Programme:

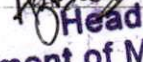
Programme Outcomes for B.Sc. (MPC , MECS , MPCs)

Students who choose B.A/B.Sc with Mathematics as one subject develop the ability to think critically, logically and analytically and hence use mathematical reasoning in everyday life. Pursuing a degree in mathematics will introduce the students to a number of interesting and useful ideas in preparations for a number of mathematics careers in education, research, government sector, business sector and industry. The programme covers the full range of mathematics, from classical Calculus to Number Theory (Cryptography) and Modern Algebra. The course lays a structured foundation of Calculus, Real & Complex analysis, Abstract Algebra, Differential equations, Number theory Linear Algebra and Graph theory. An exceptionally broad range of topics covering Pure & Applied Mathematics cater to varied interests and ambitions of the students. Skill enhancement Courses enable the student acquire the skill relevant to the main subject. Choices from Discipline Specific Electives provides the student with liberty of exploring his interests within the main subject. The well-structured programme empowers the student with the skills and knowledge leading to enhanced career opportunities in industry, commerce, education, finance and research. Further the programme

S. No.	Students completing B.Sc. (MPC , MECS , MPCs) will be able to
PO 1	• Inculcate critical thinking to carry out scientific investigation objectively without being biased with preconceived notions.
PO 2	• Equip the student with skills to analyze problems, formulate hypothesis, evaluate and validate results, and draw reasonable conclusions thereof.
PO 3	• Prepare students for pursuing research or careers in mathematical sciences and allied fields
PO 4	• Imbibe effective scientific and/or technical communication in both oral and writing.
PO 5	• Continue to acquire relevant knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues in mathematical sciences.


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Department of Mathematics

2024 – 2025

Programme:

Programme-Specific Outcomes for B.Sc. (MPC , MECS , MPCs)

S. No.	Students completing B.Sc. (MPC , MECS , MPCs) will be able to
PSO 1	Understanding of the fundamental axioms in mathematics and capability of developing ideas based on them.
PSO 2	Inculcate mathematical reasoning.
PSO 3	Prepare and motivate students for research studies in mathematics and related fields.
PSO 4	Provide knowledge of a wide range of mathematical techniques and application of mathematical methods/tools in other scientific and engineering domains.
PSO 5	Provide advanced knowledge on topics in pure mathematics, empowering the students to pursue higher degrees at reputed academic institutions.
PSO 6	Strong foundation on Abstract Algebra, Real Analysis and complex Analysis.
PSO 7	Good understanding of number theory which can be used in modern online cryptographic technologies.
PSO 8	Nurture problem solving skills, thinking, creativity through assignments, project work.

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Course: B.Sc. (MPC, MECs, MPCs)

2024 -2025

Semester I

Course Title: Differential and Integral Calculus

S.No.	Course Objectives:
1	The course is aimed at exposing the students to some basic notions in differentials calculus.
2	Understand Partial Differentiation and its applications
3	Learn basic properties of the derivatives and Taylor's theorem for a function of two variables
4	Learn to find maxima and minima of functions of two variables
5	Evaluate integrals to solve problems in Physics Engineering and Economics

S.No.	Course Outcomes
COS-1	Students Understand concepts of limit and continuity
COS-2	Students can solve problems involving partial derivatives and applications.
COS-3	Students can differentiate functions effectively using basic properties of the derivatives, and Taylor's theorem
COS-4	Students understand Geometric interpretation of curvature and Evolutes
COS-5	Students realizes wide ranging applications of the subject.

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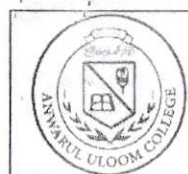
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Course: B.Sc. (MPC, MECs, MPCs)

Semester II

Course Title: Differential Equations.

S.No.	Course Objectives:
1	To understand the fundamental concept of first order and first degree differential equation
2	To explain differential equations that are of first order but not of first degree, including those solvable for different variables.
3	To provide a comprehensive understanding of higher-order linear differential equations
4	To impart knowledge of advanced solution methods, including the method of variation of parameter, solving equations with variable coefficients like Cauchy- Euler and Legendre's equation.
5	To develop the ability to analyze and solve total and simultaneous differential equations, enabling students to model and interpret multivariable systems in engineering and science.

S.No.	Course Outcomes
COS-1	Students can solve higher order linear Differential Equations
COS-2	Students can form and solve partial Differential Equations
COS-3	Students will be able to find general solution for Differential Equations
COS-4	Students understand and apply the Cauchy's –Euler Method
COS-5	Students can understand and solve problems in Physics and Engineering

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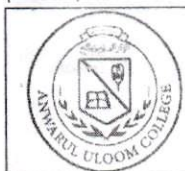
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Course: B.Sc. (MPC, MECs, MPCs)

Semester III

Course Title: Real Analysis

S.No.	Course Objectives
1	To introduce the foundational properties of real numbers .
2	To develop understanding of algebra of sequence
3	To analyze the behavior of real sequence and series – convergence , divergence.
4	To understand the concept of limit and continuity
5	To introduce the concept of differentiability, including the Reimann integral

S.No.	Course Outcomes
COS-1	Students can analyse sequence and convergence using properties of sequences
COS-2	Students understand continuity and concepts.
COS-3	Students can differentiate functions effectively
COS-4	Students can determine series convergence
COS-5	Students appreciate the course's relevance.

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Course: B.Sc. (MPC, MECs, MPCs)

Semester IV

Course Title: Algebra

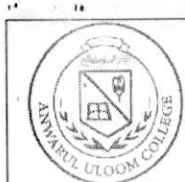
S.No.	Course Objectives
1	To recognize algebraic structures that arise in algebra .
2	To build foundation for applying concept to advanced mathematical topics.
3	Students will be familiar with concepts of permutation group.
4	Apply group theory concepts to solve problems in abstract algebra
5	Use abstract algebras concepts to model and solve problems in other areas of mathematics

S.No.	Course Outcomes
COS-1	Students recognize where algebraic structures appear in different areas of mathematics .
COS-2	Students appreciate the broad applicability of algebraic concepts across subjects .
COS-3	Students will be able to identify significance of group theory.
COS-4	Students will be able to use group theory concepts & prove theorems .
COS-5	Students will be able to apply abstract algebra concepts to model and solve problems in other areas of mathematics .

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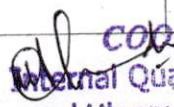
Course: B.Sc. (MPC, MECs, MPCs)

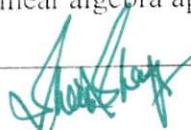
Semester V


Course Title: Linear Algebra

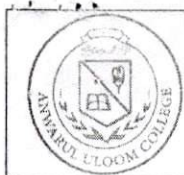
S.No.	Course Objectives
1	Understand vector spaces and their properties
2	Master concepts of linear independence, Bases and dimension.
3	Learn about eigen values and eigen vectors and Diagonalization.
4	Understand orthogonality & Least square method.
5	Appreciate the interdisciplinary nature of linear algebra.

S.No.	Course Outcomes
COS-1	Students will be able to describe vector spaces, Null spaces & Sub spaces.
COS-2	Students will be able to determine linear independence, Find bases.
COS-3	Students will be able to find eigen values and eigen vectors and apply Diagonalization techniques
COS-4	Students will be able to apply concepts of inner products, length orthogonality
COS-5	Students will understand how linear algebra applies to various fields and problems.


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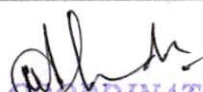
Course: B.Sc. (MPC, MECs, MPCs)

Semester VI

Course Title: Numerical analysis

S.No.	Course Objectives
1	Master numerical methods for solving equations .
2	Understand interpolation and approximation techniques .
3	Grasp numerical differentiation and integration .
4	Learn curve fitting and solving linear equations
5	Solve ordinary differential equations numerically .


S.No	Course Outcomes
COS-1	Students can use methods like Newton's or Bisection for solving nonlinear equations .
COS-2	Students can use techniques for data approximation.
COS-3	Students understand curve fitting and can solve system of liner equations.
COS-4	Students can apply methods like trapezoidal or Simpon's rule for integration
COS-5	Students can apply methods like Euler's or Runge-kutta for solving ODE'S.

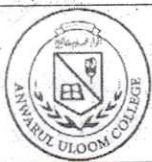

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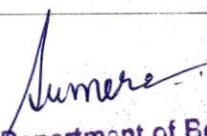
Department of Botany

2024 - 2025


Programme: B.Sc. (BZC)

Programme-Specific Outcomes for B.Sc. Botany

S. No	Students completing B.Sc. botany will be able to
PSO 1	Students study the useful and dangerous bacteria for people as well as the medical conditions they can cause.
PSO 2	The main goals of taxonomy are to identify, describe, categorize, and name all living creatures based on their characteristics.
PSO 3	By studying plant anatomy, a learner can make a conceptual connection between organismal structure and function.
PSO 4	After finishing the course, the student will be able to conduct brief research projects using a variety of plant science instruments and procedures, as well as cultivate a scientific temperament and research mindset.
PSO 5	Students can identify the primary evolutionary groups of species and categorize them within them by concentrating on plants. The characteristics that distinguish plants, algae, and fungi from other forms of life will be compared and contrasted by the students.
PSO 6	Students learn how to use instruments and experimental methods to manufacture, isolate, estimate, and characterize substances.
PSO 7	Students comprehend pollution control, biodiversity, endangered species protection, and environmental conservation procedures and their significance.
PSO 8	By using research-based teaching strategies, students also improve their critical thinking and problem-solving abilities.


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Course Outcomes (CO's): B.Sc. Botany

2024 -2025

Semester I

Course Title: Microbial diversity of lower plants

Course Code: DSC-1A

S.No	Students will be able to
CO 1	The students will understand lower plants' diversity, identification, classification and economic importance.
CO 2	The learners, after the completion of the course, comprehend the economic importance of bacteria, Algae and Fungi and how they are beneficial to human beings.
CO 3	Students studied some plant diseases with special reference to the causative agents, symptoms, etiology and control measures
CO 4	Pupils Learn about K.R. Sporne's general characteristics and categorization, pteridophyte Stelar evolution, heterospory, and the formation of seed habit.
CO 5	The Students learn the microorganism's structure, reproduction, nutrition and replication, algae characteristics, type studies and economic importance, fungi, bryophytes (Moss plants) and pteridophytes, fossils and fossilizations and the Geological time scale.

Semester II

Course Title: Gymnosperms, Taxonomy of Angiosperms and Ecology

Course Code: DSC-1B

S.No	Students will be able to
CO 1	Students acquire a fundamental understanding of the anatomy, reproduction, and development of these two groups' significant traits and their economic significance.
CO 2	The students will know how genera, species, and families are classified.
CO 3	Students gain expertise in plant nomenclature.
CO 4	Students understand the comparative account among the families of angiosperms and understand the distinguishing features of angiosperm families.
CO 5	Upon course completion, students can Know the discipline's scope and importance. Understand plant communities and ecological adaptations in plants.

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Semester III

Course Title: Plant Anatomy and Embryology

Course Code: DSC-1C

S.No	Students will be able to
CO 1	Students learn the history of embryology and the development of male and female gametophytes in plants, as well as pollination and fertilization.
CO 2	In learning the Tissues and Meristems, students can differentiate between the different tissue systems in plants and their applications.
CO 3	Students learn about the secondary growth of stem and wood structures.
CO 4	The history and importance of Embryology are being taught, as different types and structures of Ovules and the development of Male and female gametophytes are taught.
CO 5	Pollination, fertilization, seed structure polyembryony, and Apomixis are explained in their applications.

Semester IV

Course Title: Cell Biology, Genetics and Plant Physiology

Course Code: DSC-1D

S.No	Students will be able to
CO 1	Students learned the different membrane models and structures. They can discuss euchromatin and heterochromatin and special types of chromosomes.
CO 2	Students can comprehend Gene mutations, linkage and Crossing over. They learned the variations in chromosome numbers.
CO 3	Students can write on plant-water relationships, essential mineral nutrition, and the mechanism of phloem transport.
CO 4	Students can discuss photosynthesis, Respiration and Nitrogen metabolism, the role of phytohormones like Auxins, Gibberellins and Cytokinins.
CO 5	Students learn the regulation of cells and Mitosis, Meiosis and their significance

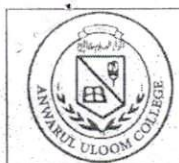
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Semester V

Course Title: Economic Botany

Course Code: DSE-1B

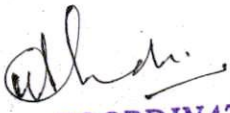
S.No	Students will be able to
CO 1	Students learn about the diversity of plants and how they are classified based on their economic uses. This involves studying different plant families, genera, and species that are important for human use.
CO 2	Understand the medicinal properties of plants, their active compounds, and their uses in traditional and modern medicine..
CO 3	This subject helps the learners to understand the concepts and themes of different biodiversity organizations and the experts working under them.
CO 4	Get to know the plants used for food, including cereals, vegetables, fruits, and nuts, and their nutritional value, culinary uses, and global importance.
CO 5	Learn the conservation status of economically important plant species and promoting sustainable practices in their cultivation and harvesting

Semester VI

Course Title: Analytical Techniques in Plant Sciences

Course Code: DSE-2C

S.No	Students will be able to
CO 1	Students learn the principles of microscopy and their use in practical classes.
CO 2	Students can comprehend the biostatistical data and learn the techniques of calculating mean, median, mode and standard deviation.
CO 3	Students learn about the different types of microscopes and chromatography techniques, and they also understand spectral analysis.
CO 4	Students learn how plants are used for many purposes, including food production, environmental change, landscape restoration, human health and wellbeing.
CO 5	Students know different techniques which can be used to study different biological processes.


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Department of Bachelor of Science (CSE)

Programme Outcomes (PO)

2024 – 2025

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	Apply the knowledge of Computer Science, mathematics, and electronics and an engineering specialization to the solution of complex engineering problems.
PO 2	Problem analysis	Identify, analyze, formulate complex computer Science and engineering problems reaching substantiated conclusions using first principles of mathematics and Computer Science.
PO 3	Sensitive to environmental sustainability issues	Design solutions for complex Computer Science engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and considerations.
PO 4	Modern tool usage	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO 5	Individual and team work	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO 6	Communication	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO 7	Project management	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO 8	Life-long learning	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.


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Department of BSc (CSE)

2024 - 2025

Programme-Specific Outcomes for B.Sc. CSE

S. No	Students completing B.Sc. CSE will be able to
PSO 1	To find a successful career in the Software or Information Technology field or will be able to pursue advanced degrees successfully.
PSO 2	Individual and team work: Function effectively as an individual, a member or leader in diverse teams and multidisciplinary settings.
PSO 3	Demonstrate knowledge and understanding of engineering and management principles and apply these to one's work as a member and leader in a team, as well as to manage projects and multidisciplinary environments.
PSO 4	To find a successful career in the Software or Information Technology field or be able to pursue advanced degrees successfully.
PSO 5	Apply standard Software Engineering practices and strategies in real-time software project development using an open-source programming environment or commercial environment to deliver quality products for the organization's success.
PSO 6	Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, databases, IoT and Data Science of varying complexity
PSO 7	Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems
PSO 8	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering activities with an understanding of the limitations.

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Course Outcomes (CO's): B.Sc. CSE

2024-2025

Semester I

S.N o	Course Title : Electrical Circuits & Machines (E C M) Course Objectives
CO 1	To introduce the basic concepts of network and circuit analysis
CO 2	To introduce the basic analysis of circuits, network analysis, 1-phase AC circuits.
CO 3	To introduce knowledge of mathematics, science, & engineering to analysis of electrical circuits.
CO 4	To introduce knowledge of mathematics, science, & engineering to design of electrical circuits.
CO 5	To introduce circuit theorems to simplify and solve complex DC and AC electric networks.

S.N o	Course Title : Electrical Circuits & Machines (E C M). Outcomes : Students will be able to
CO 1	Able to realize the working principles of electrical circuits and measuring instruments
CO 2	Able to analyze linear electric circuits to determine DC response.
CO 3	Able to analyze linear electric circuits to determine AC response.
CO 4	Able to identify the type of electrical machine used for that particular application.
CO 5	To apply knowledge of mathematics, science, & engineering to the analysis and design of electrical circuits.

S.No	Course Title: Mathematics - I Course Objectives
CO1	Quantitative problems based on vector analysis and matrix analysis such as linear independence and dependence of vectors, rank etc.
CO2	Concepts of limit theory, nth order differential equations and their applications to our daily life
CO3	Problems of differentiation of functions of two variables and the maximization and minimization of functions of several variables.
CO4	Applications of double and triple integration.
CO5	Applications of Gauss, Stoke's and Green's theorem.

S.No	Course Title: Mathematics - I (M1). Outcomes : Students will be able to
CO1	To solve quantitative problems based on vector analysis and matrix etc.
CO2	To understand the concepts of limit theory & nth order differential equations and their applications
CO 3	To solve the problems of differentiation of functions of two variables and know about the maximization and minimization of functions of several variables.
CO 4	To know the applications of double and triple integration
CO 5	To know the applications Gauss , Stoke's and Green's theorem

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S.No	Course Title: Introduction to Information Technology Course Objectives
CO 1	To introduce the fundamentals of computer software, hardware and data processing.
CO 2	To introduce various operating systems.
CO 3	To acquire knowledge of MS-Word.
CO 4	To familiarize MS-Excel.
CO 5	To introduce various operators of Ms-Access, MS Power Point

S.No	Course Title: Introduction to Information Technology. Outcome: Students will be
CO 1	Able to understand the computer components, hardware and software concepts of data processing
CO 2	Able to understand the different OS, DOS, UNIX, OS Commands, windows explorer, Accessories.
CO 3	To understand features and use of MS-Word
CO 4	To understand features and use of MS-EXCEL
CO 5	To understand features and use of M S – PowerPoint – MS Access & Types of Networks.

S.No	Course Title: Programming in C Course Objectives
CO 1	To introduce the fundamental concepts of c language, program, tools, flowcharts, algorithms .
CO 2	To introduce various looping and decision making statements , io statements, array.
CO 3	To introduce the functions and its types, structure and union.
CO 4	To familiarize various Storage classes, dynamic memory mgmt.
CO 5	To introduce the concepts of pointers and files.

S.No	Course Title: Programming in C. outcome Students will be
CO 1	Able to understand the fundamental concepts of c language, program, flowcharts, algorithms
CO 2	Able to Use various looping and decision making statement , io statements, arrays
CO 3	Able to Use the functions and its types , structure and union
CO 4	Able to Select Storage classes, dynamic memory mgmt.
CO 5	Able to understand and use the concepts of pointers and files in programs

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Semester II

S.No	Course Title: Electronic Devices & Circuits. Course Objectives
CO 1	Outline the operation of PN junction diodes and its characteristics.
CO 2	Illustrate the operation of Bipolar Junction Transistor and its characteristics.
CO 3	Demonstrate the operation of JFET and MOSFET and their characteristics.
CO 4	Introduce extend the operation of semiconductor devices
CO 5	Introduce the feedback amplifier Concept, classification, characteristics, feedback effect.

S.No	Course Title: Electronic Devices & Circuits. Outcome Students will be able
CO 1	To describe the behaviour and purpose of various diodes.
CO 2	To Understand and analyze bipolar junction transistor (BJT).
CO 3	To demonstrate the switching & amplification of the semiconductor devices (FET).
CO 4	To understand Extend the operation of semiconductor devices.
CO 5	to understand the feedback amplifier Concept, classification, characteristics & effects.

S.No	Course Title: P h y s i c s . Course Objectives
CO 1	Different types of matter depending on nature chemical bonds and their properties.
CO 2	Concept of wave function, physical significance and its applications to quantum mechanical problems.
CO 3	Concepts of semiconductor physics.
CO 4	The idea of superconductivity and importance in advancement of technologies.
CO 5	Principle, properties and applications of Lasers and optical fibres.

S.No	Course Title: P h y s i c s . Outcome : Students will be able to
CO 1	Analyze the crystal structures by applying crystallographic parameters.
CO 2	Learn and to apply concepts learnt in Quantum mechanics to one dimensional problems
CO 3	Write down the concepts related to solid state physics and material science.
CO 4	Understand application of Lasers in Medicine, Industry etc.,
CO 5	Understand applications of optical fibres in Medicine and Sensors.


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S.No	Course Title: MathematicsII Course Objectives
CO 1	Basics of matrices, complex numbers, and differential calculus.
CO 2	The concepts of The Bisection false position, the Iteration & Newton - Raphson method
CO 3	Taylor's series, Picard's method, Euler's method, Runge - Kutta methods
CO 4	Eigen values & vectors, Cayley's - Hamilton theorem, Inverse and powers of a matrix by Cayley
CO 5	The problems fourier series, even and odd functions, period continuation Half range Fourier Sine & Cosine expansions.

S.No	Course Title: Mathematics – II.Outcome : Students will be able to
CO 1	To recall and remember basics of matrices, complex numbers, and differential calculus
CO 2	To understand the Bisection false position, the Iteration Newton – Raphson method
CO 3	To apply solution by Taylor's series, Picard's, Euler's method, Rung-Kutta methods
CO 4	To analyze Eigen values & vectors, Cayley – Hamilton theorem, Inverse & powers of a matrix
CO 5	To solve and evaluate the problems Fourier series ,even & odd functions, period continuation Half range Fourier Sine and Cosine expansions.

S.No	Course Title:UNIX Programming Course Objectives
CO 1	UNIX file system, Utilities, vi editor ,file, process & disk handling commands
CO 2	problem solving using shell scripts, born shells, commands, pipes, scripts & variables etc
CO 3	To familiarize the students to Low level file access and system calls
CO 4	To equip the students with UNIX io, formatted commands.
CO 5	To equip the students file and directory handling commands.

S.No	Course Title:UNIX Programming . Outcome :Students will be able
CO 1	To understand the UNIX file system, Utilities commands for vi, file, process & disk handling commands .
CO 2	To solve the problems using shell scripts, born shells, various commands ,pipes, scripts & variables etc.
CO 3	To know the Low level file access and system calls.
CO 4	To use Unix io commands ,formatted io commands and directory handling command
CO 5	To use file and directory handling commands

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Semester III

S.No	Course Title: Mathematics – III Course Objectives
CO 1	Gamma function and beta function and their Recurrence relations, complex integration
CO 2	Finite and Infinite Fourier Transforms and applications.
CO 3	Concept of analytic function, C-R equations and its uses.
CO 4	Cauchy's theorem and its uses in complex integration. Taylor's and Laurent's series in complex form.
CO 5	Learn about Cauchy Residues theorem and contour integrations.

S.No	Course Title: Mathematics – III .Outcome: Students will be able to
CO 1	To solve Gamma function and beta function and their Recurrence relations, complex integration
CO 2	To gain knowledge of Finite and Infinite Fourier Transforms and applications.
CO 3	Familiarize yourself with the concept of analytic function, C-R equations and its uses.
CO 4	To use Cauchy's theorem & its uses in complex integration. Taylor's & Laurent's series in complex form.
CO 5	To know about Cauchy Residues theorem and contour integrations

S.No	Course Title :Computer Organization & MP 8086 Course Objectives
CO 1	basic components of computers.
CO 2	the Input and Output organizations in depth
CO 3	the memory organizations in details
CO 4	the basic chip design and organization of 8086
CO 5	assembly language programming .

S.No	Course Title :Computer Organization & MP 8086. Outcome: Students will be able to
CO 1	To understand basic components of computers
CO 2	To explore the I/O organizations in depth
CO 3	To explore the memory organization.
CO 4	To understand the basic chip design and organization of 8086 with assembly language.
CO 5	Use assembly language programming for writing programs .

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S.No	Course Title: Operating System Course Objectives
CO 1	To provide an introduction to operating system concepts (processes, threads, scheduling,)
CO 2	To introduce Inter process communication.
CO 3	To introduce synchronization, deadlocks.
CO 4	To introduce memory management techniques.
CO 5	To introduce file and directory structure and protection

S.No	Course Title: Operating System. Outcome : Students will be able to
CO 1	To use dos and unix os commands.
CO 2	To write a program using CPU scheduling algorithms.
CO 3	To write a program using bankers algorithm for deadlock avoidance.
CO 4	To write a program using memory management.
CO 5	To write programs using FIFO page replacement algorithm

S.No	Course Title: OOP Through C++ Course Objectives
CO 1	Introduce Object Oriented Programming concepts using the C++ language
CO 2	Familiarize the principles of data abstraction, inheritance and polymorphism;
CO 3	Familiarize the functions and arrays in C++
CO 4	Introduce the principles of virtual functions and polymorphism
CO 5	Introduce exception handling mechanism

S.No	Course Title: OOP Through C++. outcome : The students will be able to
CO 1	To utilize the OOP concepts.
CO 2	To develop programs with reusability
CO 3	To develop programs with array, functions and polymorphism.
CO 4	To handle exceptions in programming
CO 5	To develop applications for a range of problems using OOP programming techniques

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Semester IV

S.No	Course Title: Probability & Statistics Course Objectives
CO 1	To familiarize of probability Also measures of central tendency
CO 2	To familiarize binomial, Poison and normal distributions and their applications in different engineering, science and social science fields etc.
CO 3	To introduce sampling distribution and point and interval estimation using z and t.
CO 4	To introduce Statistical model with different statistical techniques like chi square distribution.
CO 5	To introduce the problems with correlation and regression analysis

S.No	Course Title: Probability & Statistics. Outcome: The student will be able to
CO 1	To understand the problems of probability and measures of central tendency
CO 2	To know about binomial, Poison, normal distributions and their applications in different engg., science & social science fields etc.
CO 3	To know about sampling distribution and point and interval estimation using z and t.
CO 4	To solve the statistical model with different statistical techniques like chi square distribution.
CO 5	To understand the problems and solve them with correlation and regression analysis

S.No	Course Title: Data Structure. Course Objectives
CO 1	To explore data structures such as stacks and queues
CO 2	To familiarize various types of linked lists
CO 3	To familiarize a variety of data structures such as tree, graph
CO 4	To introduces sorting algorithms
CO 5	To introduces searching algorithms

S.No	Course Title: Data Structure. Outcome : Students will be able to
CO 1	To select the data structures (stack, queue etc) that model the problems in real world.
CO 2	To use the linked list to model the information in a problem.
CO 3	To know the use of tree and graph in applications.
CO 4	To Implement sorting algorithms(bubble sort quick sort etc.)
CO 5	To Implement searching algorithms(linear, binary search) and assess efficiency trade-offs among different algorithms.

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S.No	Course Title: Programming in Java Course Objectives
CO 1	To explore the object oriented programming concepts.
CO 2	To familiarize java programming in solving problems.
CO 3	To introduce the principles of inheritance and polymorphism
CO 4	To familiarize the implementation of packages and interfaces
CO 5	To introduce the concepts of exception handling and multithreading.

S.No	Course Title: Programming in Java Students will be able to
CO 1	To solve real world problems using OOP techniques
CO 2	To solve problems using java collection framework and I/o classes.
CO 3	To develop multithreaded applications with synchronization.
CO 4	To develop applications using packages and interface
CO 5	To design programs using exception handling and multithreading.

S.No	Course Title: Modern Data Base Management (MDBMS). Course Objectives
CO 1	The basic concepts and the applications of database systems.
CO 2	Data models, database design, relational model, relational algebra,
CO 3	The basics of SQL and construct queries using SQL
CO 4	The normalization techniques.
CO 5	The storage structures & access, distributed database systems.

S.No	Course Title: Modern Data Base Management, Outcome : Students will be able to
CO 1	To Gain knowledge of fundamentals of DBMS and its uses,
CO 2	To design logical databases using data models.
CO 3	To design Physical database and master in SQL commands
CO 4	To apply the normal forms
CO 5	To familiarity with database storage structures and access techniques

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Semester V

S.No	Course Title: Computer Networks . Course Objectives
CO 1	To equip the students with overview & concepts of fundamentals of computer networks.
CO 2	To familiarize the students with the standard models for the layered approach to communication between machines in a network.
CO3	To introduce various layers, functions of each layer.
CO 4	To introduce the routing algorithms.
CO 5	To introduce various protocols in application layers.

S.No	Course Title: Computer Networks Outcome : Students will able to
CO 1	Understand the basic computer network technology.
CO 2	Understand the knowledge of the functions of each layer in the OSI and TCP/IP reference model.
CO 3	Use the knowledge in network design and implementation.
CO 4	Gain the skills of sub-netting and routing mechanisms.
CO 5	Understand the essential protocols of computer networks in application layer.

S.No	Course Title: Compiler Construction. Course Objectives
CO 1	Provide an understanding of the fundamental principles in compiler design and it phases.
CO 2	Introduce finite state machine and the scanning process in compiler.
CO 3	Introduce top down and bottom up parsing
CO 4	Introduce the various optimization methods.
CO 5	Learn the process of translating a modern high-level language to executable code required for compiler construction.

S.No	Course Title: Compiler Construction , Students will be able to
CO 1	Understand fundamentals of compiler and identify the relationships among different phases of the compiler.
CO 2	Understand the application of finite state machines and scanning.
CO 3	Understand the top down and bottom up parsing methods.
CO 4	Understand the various tools for optimization.
CO 5	Use modern tools and technologies for designing new compilers.

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S.No	Course Title: Object Oriented Analysis And Design. Course Objectives
CO 1	Explore Objects and Classes of the software system.
CO 2	Introduce construct object model using object types, attributes, structures and associations
CO 3	Introduce Object-Oriented Methodologies, Analyze Functional and Dynamic Modelling.
CO 4	Introducing an interaction diagram.
CO 5	Introduce Use case Diagrams, Activity Diagrams

S.No	Course Title: Object Oriented Analysis And Design Students will be able to
CO 1	Able to analyze the problem and apply to real world problems.
CO 2	Able to construct object-oriented system , modelling objects, relationships and interactions.
CO 3	Able to discuss software design in an object-oriented manner.
CO 4	Able to draw Interaction diagrams
CO 5	Able to draw and analyse Use case Diagrams, Activity Diagrams.

S.No	Course Title: Modern Data Base Management (MDBMS) Course Objectives
CO 1	The basic concepts and the applications of database systems.
CO 2	Data models, database design, relational model, relational algebra,
CO 3	The basics of SQL and construct queries using SQL
CO 4	The normalization techniques.
CO 5	The storage structures & access, distributed database systems.

S.No	Course Title: Modern Data Base Management (MDBMS).Students will be able
CO 1	To Gain knowledge of fundamentals of DBMS and its uses,
CO 2	To design logical databases using data models.
CO 3	To design Physical database and master in SQL commands
CO 4	To apply the normal forms
CO 5	To familiarity with database storage structures and access techniques

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Semester VI

S.No	Course Title: Internet of Things . Course Objectives
CO 1	Provide an understanding what IoT is and how it works today
CO 2	Introduce the factors that contributed to the emergence of IoT
CO 3	Introduce Internet and communication technologies for IoT.
CO 4	Provide Prototyping and programming for IoT
CO 5	Introduce Cloud computing and Data analytics.

S.No	Course Title: Internet of Things Students will be able to
CO 1	Understand what IoT is and how it works today.
CO 2	Understand the factors that contributed to the emergence of IoT
CO 3	Understand the Internet and communication technologies for IOT.
CO 4	Understand prototyping and programming for IoT
CO 5	Understand the Cloud computing and Data analytics.


S.No	Course Title: Web Programming . Course Objectives
CO 1	To introduce HTML & DHTML language for client –sides scripting
CO 2	To introduce Cascading style sheets and layer
CO 3	To introduce with Java scripts and it's objects
CO 4	To introduce Server-side programming with ASP
CO 5	To introduce the XML.

S.No	Course Title: Web Programming Students will be able to
CO 1	Gain knowledge of client-side scripting, validation of forms.
CO 2	Understand the use of css and layers
CO 3	Understand Java scripts and it's objects
CO 4	Understand server-side scripting with ASP.
CO 5	Understand what is XML and how to parse and use XMLData

S.No	Title:Introduction to Data science & Python Programming. Course Objectives
CO 1	To introduce the concept of data science and its fundamentals.
CO 2	To introduce various machine learning algorithms.
CO 3	To acquire programming skills in core Python.
CO 4	To familiarize data types in python
CO 5	To understand various operators and control statements and Arrays

S.No	Title:Introduction to Data science & Python Programming ,Students will be able to
CO 1	To understand data science phases of data science process and its role.
CO 2	To understand various algorithms in machine learning.
CO 3	To understand python programming and data types.
CO 4	To understand Operators in Python, input and output statements, Control Statements.
CO 5	To understand the concept of arrays in python.


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ANWAR UL ULOOM DEGREE COLLEGE
DEPARTEMNT OF COMPUTER SCIENCE

B.Sc. (MECS and MPSC)

Academic Year 2024-25



PROGRAM SPECIFIC OUTCOMES

S. No.	Aspect	Students will be able to
PSO 1	Core Knowledge	Acquire strong foundational knowledge in computer science, programming languages, and software development tools essential for professional success.
PSO 2	Problem Solving and Analytical Skills	Apply computational thinking, algorithms, and programming techniques to solve complex real-world problems effectively and efficiently.
PSO 3	Environmental and Social Awareness	Integrate principles of environmental sustainability and social responsibility into computing practices and project development.
PSO 4	Ethical Practices and Communication	Demonstrate ethical integrity, professional behavior, and effective communication skills in individual and collaborative work settings.
PSO 5	Teamwork and Leadership	Collaborate effectively in multidisciplinary teams and demonstrate leadership in planning, executing, and managing software projects.
PSO 6	Career Readiness and Research Aptitude	Develop logical reasoning, critical thinking, and research skills necessary for pursuing advanced studies or careers in industry and academia.
PSO 7	Global and Cultural Competence	Exhibit awareness of global computing trends and demonstrate proficiency in technologies such as Database Management and Digital Content Systems.
PSO 8	Cyber security and Community Engagement	Understand cyber security threats, follow cyber ethics, comply with Indian cyber laws, and actively contribute to promoting digital safety in the community.

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ANWARUL ULOOM COLLEGE (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE

PROGRAM: B.Sc. (MECS) & B.Sc. (MPCS)

SEMESTER: FIRST




SUBJECT: PROGRAMMING IN C


COURSE CODE: 6110

Sl.No.	Course Objectives	Course Outcomes
CO1	To enable students to recall the fundamental concepts of C programming and understand program structure, data types, operators, and control statements.	Explain the fundamentals of C programming, including data types, operators, control structures, and program structure.
CO2	To provide the ability to apply C constructs such as arrays, strings, functions, pointers, and structures to solve computational problems.	Apply C constructs such as loops, arrays, functions, and pointers to solve computational problems.
CO3	To train students to analyze problems and break them into modular programs using structured programming concepts.	Analyze problems and decompose them into modular programs using functions and structured programming principles.
CO4	To develop skills to evaluate multiple programming approaches for efficiency, readability, and correctness in C.	Evaluate different approaches in C programming for efficiency, readability, and reusability.
CO5	To encourage students to design and implement efficient C programs integrating data structures and algorithms for real-world problem solving.	Design and develop efficient C programs to solve real-world problems using appropriate data structures and algorithms.


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ANWARUL ULOOM COLLEGE (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE

PROGRAM: B.Sc. (MECS) & B.Sc. (MPCS)

SEMESTER: SECOND



SUBJECT: PROGRAMMING IN C++

COURSE CODE: 6210

Sl.No.	Course Objectives	Course Outcomes
CO1	To introduce the fundamentals of problem-solving and programming using C++.	Analyze a given problem and develop C++ program to solve the problem
CO2	To develop the ability to write modular and reusable code using functions and classes.	Improve upon a solution to a problem using object oriented features
CO3	To understand the principles of object-oriented programming such as encapsulation, inheritance, and polymorphism.	Appreciate and understand the working of a classes and objects, Inheritance
CO4	To enable students to use C++ features like operator overloading, templates, and exception handling for efficient programming.	Use the 'C++' language constructs features and improve skills in OOP
CO5	To provide exposure to file handling and data structures using C++.	Design, develop and test programs written in 'C++' using OOP paradigm

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ANWARUL ULOOM COLLEGE (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE

PROGRAM: B.Sc. (MECS) & B.Sc. (MPCS)

SEMESTER: THIRD



SUBJECT: DATA STRUCTURES USING IN C++

COURSE CODE: 6310

Sl.No.	Course Objectives	Course Outcomes
CO1	To enable students to recall fundamental concepts of data structures and explain their applications in problem solving using C++.	Describe the basic concepts of data structures and explain their role in solving computational problems.
CO2	To develop the ability to implement linear and non-linear data structures (such as arrays, linked lists, stacks, queues, trees, and graphs) using C++.	Implement linear data structures (arrays, stacks, queues, linked lists) and non-linear data structures (trees, graphs) using C++
CO3	To train students to analyze algorithmic efficiency in terms of time and space complexity for different data structures.	Analyze the performance of different data structures and algorithms in terms of time and space complexity.
CO4	To help students compare and evaluate various data structures for solving real-world computational problems and choose the most efficient one.	Compare and evaluate the suitability of different data structures for specific real-world problems.
CO5	To encourage students to design and develop optimized solutions by integrating suitable data structures in C++ for practical applications	Design and develop efficient C++ programs by integrating appropriate data structures to solve complex problems.

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DEPARTMENT OF COMPUTER SCIENCE

PROGRAM: B.Sc. (MECS) & B.Sc. (MPCS)

SEMESTER: FOURTH




SUBJECT: DATABASE MANAGEMENT SYSTEM

COURSE CODE: 6410

Sl.No.	Course Objectives	Course Outcomes
CO1	To enable students to recall fundamental concepts of database systems and explain data models, database architectures, and database languages.	Explain the fundamental concepts of database systems, data models, schemas, and database architectures.
CO2	To develop the ability to apply relational algebra, SQL, and normalization techniques for designing and querying databases.	Apply relational algebra operations and SQL commands to create, manipulate, and query databases.
CO3	To train students to analyze functional dependencies, schema design issues, and transaction management problems in database systems.	Analyze database design using functional dependencies, normalization, and identify potential anomalies in schema design.
CO4	To help students evaluate different database design strategies, query optimization methods, and concurrency control techniques.	Evaluate different database storage structures, indexing methods, transaction management, and concurrency control strategies.
CO5	To encourage students to design and implement efficient database applications using suitable database tools and technologies for real-world scenarios.	Design and develop efficient database applications for real-world scenarios using appropriate database tools and techniques.


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DEPARTMENT OF COMPUTER SCIENCE

PROGRAM: B.Sc. (MECS) & B.Sc. (MPCS)

SEMESTER: FIFTH



SUBJECT: PROGRAMMING IN JAVA

COURSE CODE: 6510

Sl.No.	Course Objectives	Course Outcomes
CO1	To introduce the fundamental concepts of object-oriented programming using Java.	Explain the features of Java, object-oriented programming principles, and Java program structure.
CO2	To develop problem-solving skills by applying Java features such as classes, objects, inheritance, polymorphism, and abstraction.	Apply object-oriented concepts such as classes, objects, inheritance, polymorphism, and interfaces to solve programming problems.
CO3	To provide knowledge of exception handling, multithreading, and file handling in Java for robust programming.	Analyze Java programs using exception handling, multithreading, and packages to manage complexity and improve reliability.
CO4	To enable students to design and implement real-world applications using Java libraries.	Evaluate the use of different Java APIs, libraries, and frameworks for building effective applications.
CO5	To familiarize students with Java Interface, Packages, Applets and JDBC for developing interactive and connected applications.	Design and develop robust, portable, and user-friendly applications using Java technologies (GUI, Applets, JDBC, etc.).


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DEPARTMENT OF COMPUTER SCIENCE

PROGRAM: B.Sc. (MECS) & B.Sc. (MPCS)

SEMESTER: SIXTH

SUBJECT: WEB TECHNOLOGIES

COURSE CODE: 6610



Sl.No.	Course Objectives	Course Outcomes
CO1	To introduce the fundamental concepts of web technologies, including client-side and server-side programming.	Describe the fundamentals of the Internet, web standards, client-server architecture, and core web technologies Like HTML, DHTML, XML, JavaScript, AJAX, and RIA.
CO2	To enable students to design and develop responsive and interactive web pages using HTML, CSS, and JavaScript.	Apply HTML, CSS, JavaScript and XML to design and develop interactive, responsive, and user-friendly web pages.
CO3	To provide knowledge of XML, Ajax and RIA for dynamic web application development.	Analyze the role of client-side and server-side scripting, and differentiate between technologies such as AJAX, JSP, and Servlets.
CO4	To familiarize students with database connectivity for creating data-driven websites.	Evaluate different frameworks, databases, and web development tools for building efficient, secure, and scalable web applications.
CO5	To develop problem-solving skills in building secure, scalable, and efficient web applications.	Design and develop complete web applications by integrating front-end, back-end, and database connectivity.


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Department of Zoology

2024 - 2025

Programme-Specific Outcomes for B.Sc. Zoology

S. No	Students completing B.Sc. Zoology will be able to
PSO 1	Understand animal interactions with the environment and identify the major groups of organisms with an emphasis on animals and classify them within a phylogenetic framework.
PSO 2	Program specific outcomes (PSOs) for vertebrate-related studies (e.g., in Zoology programs) typically focus on developing a strong understanding of vertebrate biology, including their diversity, classification, anatomy, physiology, and ecological roles.
PSO 3	Perform procedures as per laboratory standards in the areas of taxonomy, physiology, ecology, cell biology, genetics, applied zoology, clinical science, tools and techniques of zoology, toxicology, entomology, nematology, sericulture, biochemistry, fish biology, animal biotechnology, immunology and research methodology.
PSO 4	Ability to connect and apply biological knowledge to other disciplines and to integrate knowledge into their personal and professional lives.
PSO 5	- Understand the structure and function of biomolecules (carbohydrates, proteins, lipids, nucleic acids). Analyze metabolic pathways and enzyme kinetics. Apply knowledge of biochemical principles to understand disease mechanisms and develop therapeutic strategies
PSO 6	Understand the physiology of hormone regulation and function, Analyze the role of thyroid hormones in regulating metabolic rate and energy production.
PSO 7	- Understand the principles of immune system function and regulation. Identify and describe the different types of immune cells and their roles in immune responses. Analyze the causes and consequences of immune disorders (e.g., autoimmune diseases, immunodeficiency)
PSO 8	Understand the fundamental principles of biotechnology and its applications in various fields, - Analyze the ethical and regulatory considerations in biotechnology research and development - Apply knowledge of biotechnology to develop new products, technologies, and medical treatments

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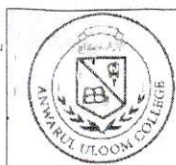
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Course Outcomes (CO's): B.Sc. Zoology

2024 -2025

Semester I


Course Title: ANIMAL DIVERSITY - INVERTEBRATES

S.No	Students will be able to
CO 1	To classify Phylum Porifera with taxonomic Keys.
CO 2	To describe the Phylum Coelenterata and its Polymorphism
CO 3	To identify the given Mollusca with respect to economic importance.
CO 4	To describe general characters of Nematyhelminthes and their parasitic adaptation.
CO 5	To explain classification of protozoa and diseases caused by them.
CO 6	To explain general characters of Arthropoda and metamorphosis in insects.

Semester II

Course Title: VERTEBRATES

S.No	Students will be able to
CO 1	To understand and appreciate the study of significance of animal biodiversity.
CO 2	To remember general characteristics of vertebrates. CO3: To analyze the various adaptations in vertebrates. CO4: To apply the gained knowledge in comprehending the structural organization in vertebrates.
CO 3	CO3: To analyze the various adaptations in vertebrates.
CO 4	CO4: To apply the gained knowledge in comprehending the structural organization in vertebrates.


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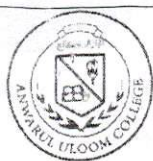
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Semester III

Course Title: ANIMAL PHYSIOLOGY

S.No	Students will be able to
CO 1	To describe the types of Digestion.
CO 2	To explain the process of carbohydrates, protein, lipid digestion.
CO 3	To describe the structure of mammalian lungs.
CO 4	To describe the mammalian heart and its functioning.
CO 5	How are the animals classified on the basis of excretion of nitrogenous waste products.
CO 6	To describe Sliding Filament theory of muscle contraction.

Semester IV

Course Title: CELL BIOLOGY, GENETICS AND ORGANIC EVOLUTION

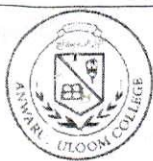
S.No	Students will be able to
CO 1	Illustrate that Cell being the fundamental structural unit defines the function of all living things.
CO 2	Obtain knowledge of the structures and functions of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles.
CO 3	Understand the cellular components underlying cell division.
CO 4	Compare and contrast the events of cell cycle and its regulation.
CO 5	Explain the communications of cells with other cells and to the environment
CO 6	A thorough and in-depth understanding of the chemical basis of heredity.
CO 7	The skills required to plan, carry out, and evaluate the outcomes of genetic experiments in animal model systems.
CO 8	Develop the necessary communication skills in the discipline required for oral presentations of research results, and poster presentations at conferences etc.

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Semester V

Course Title: BIOCHEMISTRY AND ENDOCRINOLOGY

S.No	Students will be able to
CO 1	Understand in detail about amino acid structures, types of amino acids, classifications, structure of proteins and types of proteins.
CO 2	Learn the molecular structures of 20 amino acids, differentiating essential and non-essential amino acids, biologically important modified amino acids and their functions.
CO 3	- Recognize the structural levels of organization of proteins, 3D structure of proteins, its functions, denaturation (hemoglobin, myoglobin etc.).
CO 4	Learn how amino acids and proteins are metabolized, emphasizing the role of few intermediates of their metabolism, monitoring the deficiency and abundance disorders of amino acid metabolisms and the role of enzymes in the regulation of the pathways
CO 5	Describe/recognize lipid and porphyrin structures, lipoproteins and functions of porphyrins (heme, chlorophyll etc.).

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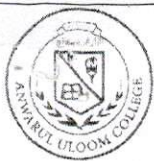
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Semester VI

Course Title: IMMUNOLOGY AND BIOTECHNOLOGY

S.No	Students will be able to
CO 1	This course gives an overview on the immune system including organs, cells and receptors.
CO 2	The students learns about molecular basis of antigen recognition, hypersensitivity reaction, antigen-antibody reactions.
CO 3	The course develops in the student an appreciation for principles of immunology and its applications in treating human diseases.
CO 4	The course will introduce major groups of microorganism's tools in biotechnology and their most important environmental applications.
CO 5	On completion of course, students will be able to understand the use of basic microbiological, molecular and analytical methods, which are extensively used in environmental biotechnology.


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Department of Microbiology

Programme Outcomes (PO), 2024 - 2025

Bachelor of Sciences (B.Sc., Bt.M.C - Microbiology) &

Master of Sciences (M.Sc.) Microbiology

S.No.	Aspects	Programme Outcomes
PO 1	Knowledge	<ul style="list-style-type: none"> Develop principles of microbiological a thorough understanding, encompassing microbial structure, function, genetics and diversity. Apply knowledge to analyze and resolve complex microbiological challenges effectively.
PO 2	Problem Analysis & Role of AI & ML	<ul style="list-style-type: none"> Utilize critical thinking and analytical skills to identify and assess microbiological issues, proposing evidence-based solutions. Utilize methodologies and experimental techniques to investigate microbial phenomenon and draw scientific conclusions. Will understand and utilize the role of Artificial Intelligence (AI) and Machine Learning (ML) to analyze and understand the current role in various microbiology streams.
PO 3	Sensitive to environmental sustainability issues	<ul style="list-style-type: none"> Demonstrate awareness of the environmental impact of microbiological activities. Promote for and implement microbiological practices that support sustainability and minimize ecological impact.
PO 4	Ethics and Communication	<ul style="list-style-type: none"> Support ethical standards in microbiological research and practice, demonstrating integrity and responsibility Communicate microbiological concepts proficiently through clear presentations, technical reports and publications.
PO 5	Individuality and Teamwork	<ul style="list-style-type: none"> Excel both independently and collaboratively in laboratory and field settings, respecting diverse viewpoints and contributing constructively to team efforts. Promote a comprehensive and supportive environment for effective teamwork and professional growth.
PO 6	Competencies for Employment and Research	<ul style="list-style-type: none"> Acquire and apply advanced laboratory skills essential for career in microbiology and related fields. Conduct research, demonstrating proficiency in experimental designs, data analysis, and interpretation.
PO 7	Cultural and global Engagements	<ul style="list-style-type: none"> Recognize the global relevance of microbiology across different cultural contexts and societal landscapes. Engage in global microbiological issues and collaborate nationally & internationally to address scientific challenges and opportunities.
PO 8	Community Engagement	<ul style="list-style-type: none"> Apply microbiological knowledge and skills to address community health concerns and environmental issues. Participate actively in outreach activities to educate and empower the public about the microbiology and its implications for everyday life

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Course Outcomes (CO's): B.Sc. Microbiology

2024 - 2025

Semester I

Course Title: General Microbiology

Course Code: 487

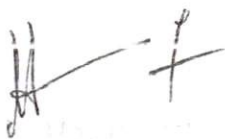
S.No	Students will be able to
CO 1	Describe history of microbiology, principles of microscopes, importance & application of microbiology & principles of types of staining
CO 2	Explain structure of bacteria, viruses, pure culture techniques and preservation methods of microbial cultures
CO 3	Understand microbial nutrition and metabolism
CO 4	Demonstrate sterilization and disinfection techniques
CO 5	Demonstrate Microbial growth phases


Semester II


Course Title: Microbial Diversity

Course Code: 487

S.No	Students will be able to
CO 1	Gain the knowledge of biodiversity, conservation & elements of biodiversity
CO 2	Classify the living organisms and microorganisms with particular to the bacteria
CO 3	Explain the general characteristics of eubacteria, rickettsia, Chlamydia and mycoplasma
CO 4	Understand eukaryotic microbial diversity, structural, physiological and metabolic characteristics of Algae, fungi & protozoa.
CO 5	Gain the knowledge of microbial interactions.


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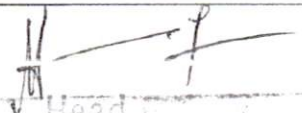
Department of Microbiology

2024 - 2025


Programme: B.Sc Bt.M.C (Microbiology)

Programme-Specific Outcomes for B.Sc. Bt.M.C. Microbiology

S. No	Students completing B.Sc. Microbiology will be able to
PSO 1	Understand the general microbiology & fundamental principles involved in Microbiology.
PSO 2	Acquire detail knowledge of Microbial Biodiversity and conservation, microbial interaction
PSO 3	Understand aspects of food microbiology & environmental microbiology, food quality control and food borne diseases, microorganisms as food, Microorganisms involved in air, water & soil.
PSO 4	Acquire detail knowledge of medical microbiology with reference to viral diseases, insect borne diseases, acquaint with concepts of Immunity, Antigen, Antibody and Immune, System and diagnostic labelled techniques.
PSO 5	Study molecular biology & microbial genetics. Acquire detail knowledge of Mendelian laws, structure, replication of DNA and mutations.
PSO 6	Acquire the knowledge of Pharmaceutical Microbiology, its importance and application.
PSO 7	Demonstrate practically with techniques involved in microbiology, food microbiology, environmental microbiology, medical microbiology, immunology, molecular biology, microbial genetics and pharmaceutical microbiology.
PSO 8	Do the research and work on various microbiological issues and find the solution.


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Semester III

Course Title: Food & Environmental Microbiology

Course Code: 487

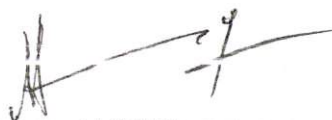
S.No	Students will be able to
CO 1	Prepare fermented foods and able to use microorganisms as food
CO 2	Understand the quality control issues and quality assessment of food
CO 3	Demonstrate water quality and sewage treatment
CO 4	Isolate microorganisms from air and water
CO 5	Check the soil microbiological properties and work on microbial bioremediation

Semester IV

Course Title: Medical Microbiology & Immunology

Course Code: 487

S.No	Students will be able to
CO 1	Explain medical microbiology, normal flora of human body and bacterial infections of air borne, food borne, water borne and contract diseases
CO 2	Explain the parasitology of food, water, insect borne, zoonotic and viral diseases.
CO 3	Describe immunology, cells & organs of immune system, types of immunity, antibodies and Major histocompatibility complex
CO 4	Explain immunological disorders
CO 5	Demonstrate antigen-antibody interactions



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Semester V

Course Title: Molecular Biology & Microbial Genetics

Course Code: 487

S.No	Students will be able to
CO 1	Explain microbial genetics, fundamentals of Genetics and Central Dogma
CO 2	Define Mutations and genetic recombinations
CO 3	Describe gene, type of gene, gene expression, genetic code & Lac operon concept
CO 4	Explain genetic engineering, genomic and cDNA libraries
CO 5	Illustrate Hybridation techniques

Semester VI

Course Title: Pharmaceutical Microbiology

Course Code: 487

S.No	Students will be able to
CO 1	Explain chemotherapy, history of chemotherapy, target sites of drug action in microbes and development of synthetic drugs.
CO 2	Describe the origin, development and definition of antibiotics as drugs, types of antibiotics and their classification.
CO 3	Describe non-medical uses of antibiotics and principles of chemotherapy
CO 4	Explain the phenomenon of drug resistance and mode of action of important drug
CO 5	Demonstrate the microbiological assays, assay for growth promoting substances and Antibiotics assays

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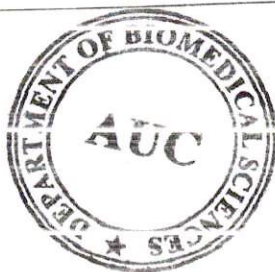


Department of Biomedical Sciences

Programme: B.Sc (Hons.) Biomedical Sciences

Programme-Specific Outcomes for B.Sc. (Hons.) Biomedical Sciences

S. No	Students completing B.Sc. Biomedical Sciences will be able to
PSO 1	Understand the basics of Medical Biology, Medical Endocrinology and Diagnostics
PSO 2	Acquire detail knowledge of integrated Human Physiology, Anatomy and Pathology, and gain knowledge of Basic and Applied Biostatistics.
PSO 3	Understand aspects of Applied Immunology and Biologies.
PSO 4	Acquire detail knowledge of Drug discovery, CDM and Statistical Programming
PSO 5	Study Bioanalytical techniques, Bioinformatics, Biosafety, Infectious Diseases, Regulatory affairs in pharmacology and Toxicology
PSO 6	Acquire the knowledge of Clinical toxicology, Cancer Biology, Preclinical Drug Safety, Efficacy Analysis, Pharmacokinetic Modeling in Drug Discovery Development, Clinical Genetics, Intellectual Property Rights and Entrepreneurship
PSO 7	Develop Skills on Clinical Biochemistry, Molecular Diagnostics, Invitro, InVivo assay development, Drug Screening, Forensic Science techniques and DNA fingerprinting
PSO 8	Do internship and research and gain experience in Biomedical Sciences



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Course Outcomes (CO's): B.Sc. (Hons.) Biomedical Sciences

2024 - 2025

Semester I

Course Title: Basic of Medical Biology

Course Code: (BMS-C101)

S.No	Students will be able to
CO 1	Understand Enzymes as drugs, its role in clinical medicine, role of proteins and nucleic acids in medical Biology
CO 2	Learn Transcription, post transcriptional mechanisms and modification, translation mechanisms and elongation and termination of polypeptides
CO 3	Learn Mutations, chromosomal aberrations, chromosomal abnormalities in humans and inherited human diseases
CO 4	Understand principles of diseases and epidemiology, know relationship between normal microbiota and host, opportunistic microorganisms
CO 5	Understand gastrointestinal tract, urinary tract infections and viral infections

Semester I

Course Title: Medical Endocrinology and Diagnostics

Course Code: (BMS-C102)

S.No	Students will be able to
CO 1	Gain the knowledge of endocrinology, pathways of hormonal synthesis, assays and endocrine disorders during adolescence
CO 2	Explain the structure, function and regulation of glands and their secretions, insulin importance, Hypothalamo and problems of menopause
CO 3	Explain fundamentals of clinical diagnostics
CO 4	Explain the approaches to diagnosis of infectious diseases
CO 5	Isolate bacteria from mixed culture



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Semester II

Course Title: Integrated Human Physiology, Anatomy and Pathology

Course Code: (BMS-C103)

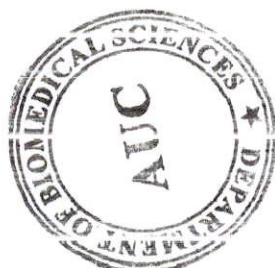
S.No	Students will be able to
CO 1	Understand Human Anatomy and Physiology: Focus on Immunological and Hematological systems
CO 2	Understand Nervous system and sensory organs physiology and pathology
CO 3	Explain musculoskeletal system and associated pathologies
CO 4	Know the pathological mechanisms
CO 5	Perform the diagnostic tests

Semester II

Course Title: Basic and Applied Biostatistics

Course Code: (BMS-C104)

S.No	Students will be able to
CO 1	Understand the fundamentals of Biostatistics and Data analysis
CO 2	Understand the inferential statistics and hypothesis testing
CO 3	Perform clinical data analysis and experimental design
CO 4	Understand regulatory compliance
CO 5	Write reports and present medical data



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DEPARTMENT OF NUTRITION AND DIETETICS

2024-2025

Programme: BSc Nutrition and Dietetics

Programme-Specific Outcomes For BSC Nutrition And Dietetics

S.NO	Students completing B.Sc. Nutrition and Dietetics will be able to
PSO1	Develop knowledge and skilled professionals to perform food and nutrition analysis using various analytical tools at multi-centric facilities in India and abroad
PSO2	Inculcate a problem solving mindset of the students through healthcare and industrial exposure of real world problems
PSO3	Helps to transpire as a Diet counsellor, Nutrition/Health communicator for creating awareness in society through various communication strategies in Nutrition Education emphasising information technology
PSO4	Provide culturally sound methods of education.
PSO5	Apply the knowledge of processing, preservation and bakery techniques in designing and enhancing the shelf life of new and existing products
PSO6	Strengthens the Competent Graduates as successful Entrepreneurs and energized Professionals to take up
PSO7	Careers in academics, Health Care Centres and Food Processing Industries.
PSO8	Professional Ethics Hold up and commit to professional ethics and ethical regulations, responsibilities, and norms of professional nutrition and dietetics practice.

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Course Outcomes (CO's): B.Sc. Nutrition and Dietetics

2024-2025

Semester I


Course Title: Introduction to Food and Nutrition

S.NO	Students will be able to
CO1	Understand the importance of food and meaning of nutrition and familiarize them with RDA and Recommendations & Guidelines
CO2	Better understanding on the physiological and metabolic functions of nutrients human nutrition
CO3	Gain in-depth knowledge of the physiological and metabolic role of macronutrients, fat soluble and water-soluble vitamins, electrolytes and their importance in human nutrition
CO4	Acquire practical understanding of the science of cooking each food group.
CO5	Analyse the factor affecting the cooking process of a food group.

Semester II

Course Title: Nutritional Biochemistry and Human Physiology

S.No	Students will be able to
CO1	To understand the various physiological structures and functions of human systems.
CO2	To relate and integrate the physiological functions with human nutrition.
CO3	Describe various macro and micronutrients and their classification.
CO4	Evaluate and explain the role of nutrients in the optimal functioning of biochemical pathways in the body.
CO5	Analyse the biochemical mechanisms of disease development and discuss therapeutic options




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Semester III

Course Title: Normal and Therapeutic Nutrition

S.NO	Students will be able to
CO1	Practically gain knowledge to plan diet for each stage of life according to the guidelines for dietary needs
CO2	Gain knowledge on changes during various stages of growth and development throughout lifecycle
CO3	Thorough understanding of the basis of human nutritional requirements and recommendations throughout human life cycle
CO4	Understand the modifications in the diet according to the condition of an individual.
CO5	Gain knowledge of planning diets, preparation of recipes according to the modifications required and display of detailed menu cards.

Semester IV

Course Title: Diet in Diseases

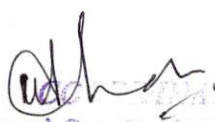
S.NO	Students will be able to
CO1	Understand the etiology, physiology and metabolic anomalies of acute and chronic diseases and patient needs.
CO2	Know the effect of various diseases on nutritional and dietary requirements.
CO3	Provide and recommend appropriate nutritional care for prevention and treatment of various diseases.
CO4	develop skills and techniques in the planning and preparation of therapeutic diets for various diseases and nutritional deficiencies.
CO5	Plan, calculate and prepare therapeutic diets for different diseases




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Semester V

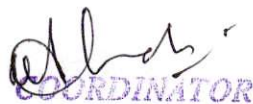
Course Title: Clinical Dietetics

S.NO	Students will be able to
CO1	Demonstrate knowledge of nutrition principles and their application to disease prevention and management.
CO2	Interpret and translate scientific knowledge and principles related to nutrition into practical information.
CO3	Demonstrate a knowledge of medical terminology and medical abbreviations associated with nutrition related diseases and conditions
CO4	Collect, organise and assess data relating to the health and nutritional status of individuals in line with the nutrition care process
CO5	Demonstrate professional conduct, and recognise cultural and interprofessional considerations when working with people from diverse backgrounds

Semester VI

Course Title: public health Nutrition


S.NO	Students will be able to
CO1	Identify and apply appropriate statistical methods to analyze and describe a public health problem.
CO2	Use Epidemiologic methods to analyze patterns of disease and injury and discuss application to control problems.
CO3	Understand the relationship between environmental factors and community health.
CO4	Management in the planning, implementation and evaluation of health programs for individuals and populations.
CO5	Address behavioral, social and cultural factors that impact individual and population health


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PHYSICS DEPARTMENT

Under Graduate - B.Sc. (M.P.C ** M.P.E ** M.P.Cs.)

Program Educational Objectives - Outcomes (2024 - 2025)

Programme Objective: B.Sc.

1. Read, understand and interpret physical information – verbal, mathematical and graphical.
2. Impart skills required to gather information from resources and use them.
3. To give need based education in science of the highest quality at the undergraduate level.
4. Perform experiments and interpret the results of observation, including making an assessment of experimental uncertainties.
5. Provide an intellectually stimulating environment to develop skills and enthusiasms of students to the best of their potential.

Programme Outcomes: B.Sc.

- PO-1. This course forms the basis of science and comprises of the subjects like Mathematics, Physics, Electronics, Chemistry, Biology and Zoology.
- PO-2. 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
- PO-3. After the completion of this course students have the option to go for higher studies i.e. M.Sc. and then do some research for the welfare of mankind
- PO-4. After higher studies students can join as scientist and can even look for professional job oriented courses.
- PO-5. This course also offers opportunities for serving in Indian Army, Indian Navy, Indian Air Force as officers.
- PO-6. Students after this course have the the option to join Indian Civil Services as IAS, IFS etc..
- PO-7. Science graduates can go to serve in industries or may opt for establishing their own industrial unit.
- PO-8. Apart from the research jobs, students can also work or get jobs in Marketing, Business & Other technical fields
- PO-9. Science graduates also recruited in the bank sector to work as customer service executives. Students can also find employment in government sectors.
- PO-10. Often, in some reputed universities or colleges in India and abroad the students are recruited directly by big MNC's after their completion of the course.

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Programme Specific Outcomes: B.Sc. (M.P.C ** M.P.E ** M.P.Cs.) - Physics

PSO-1. Provide students with a broad understanding and appreciation of the physical principles and laws governing the universe.


PSO-2. Prepare students for success in their chosen careers by emphasizing critical thinking and scientific reasoning through an inquiry-based curriculum.

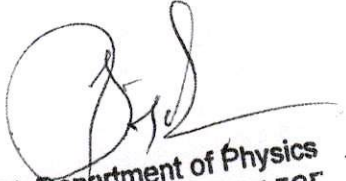
PSO-3. Develop quantitative, analytical and problem-solving skills in majors and non-majors to ensure that students emerging from the coursework/program are equipped with the set of competencies required in the STEM (Science, Technology, Engineering and Mathematics) workplace.


PSO-4. Students will demonstrate proficiency in analyzing and solving problems in physics and related STEM field.

PSO-5. After the completion of this course students have the option to go for higher studies i.e. M. Sc and then do some research for the welfare of mankind.

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B.Sc. I year - Semester I
Paper - I
Code No. 6118
Subject - Mechanics




Course Objective: Mechanics


1. This course would empower the student to acquire engineering skills and practical knowledge, which help the student in their everyday life.
2. Learn basics of the kinematics and dynamics linear and rotational motion.
3. Develop skills to understand and solve the equations of Newtonian Gravity and central force problem.
4. This syllabus will cater the basic requirements for their higher studies.
5. This course will provide a theoretical basis for doing experiments in related areas.

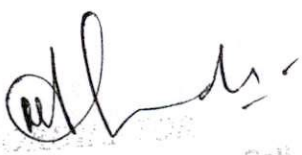
Course Outcomes: Mechanics

- CO-1. Evaluate line, surface and volume integrals.
- CO-2. Learned conservation laws of energy and linear and angular momentum and apply them to solve problems.
- CO-3. Equation of continuity- Euler Equation.
- CO-4. Apply Kepler's law to describe the motion of planets and satellite in circular orbit, through the study of law of Gravitation.
- CO-5. Fundamental ideas of special theory of relativity such as length contraction and time dilation and mass –energy invariance.


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B.Sc. I year - Semester II
Paper - II
Code No. 6218
Thermal Physics



Course Objective: Thermal Physics


1. This basic course in thermodynamics will enable the student to understand various thermo dynamical concepts, principles.
2. This course is to develop a working knowledge of statistical mechanic and to use this knowledge to explore various applications related to topics in material science and the physics of condensed matter.
3. To understand the applications of the laws of thermodynamics.
4. Measurement of Planck's constant using black body radiation.
5. To determine Stefan's Constant.


Course Outcomes: Thermal Physics

- CO-1. Define postulates of kinetic theory of gases
- CO-2. Differentiate the terms heat and temperature and measure temperature using thermometer and convert one scale of temperature to another scale.
- CO-3. Define different thermal processes and understand laws of thermodynamics and identify its outcomes.
- CO-4. Realize the importance of Thermo dynamical functions and applications of Maxwell's relations.
- CO-5. Differentiate between principles and methods to produce low temperature, liquefy air, helium and hydrogen
- CO-6. Familiarize in depth about statistical distribution and have basic Ideas about Maxwell-Boltzman, Bose-Einstein and Fermi Dirac Statistics and their applications.

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B.Sc. II year - Semester III
Paper - III
Code No. 6318
Electromagnetic Theory



Course Objective: Electromagnetic Theory

1. This course will help in understanding basic concepts of electricity and magnetism and their applications.
2. A course in electricity and electrodynamics is thus an essential component of physics programme at graduate level.
3. This course is expected to provide a sound foundation in electricity and electrodynamics.
4. Study in depth about Polarization, bound charges and boundary condition.
5. Solve complex problems involving linear electrical networks employing the symmetry concepts together with various network theorems.

Course Outcomes: Electromagnetic Theory

- CO-1. Have gained elaborated knowledge about electrostatics and laws governing the charge distribution.
- CO-2. To understand the relevance of different magnetization and the boundary condition of magnetic field.
- CO-3. To realize the importance of application of Biot Savarts Law and Amperes law.
- CO-4. 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.
- CO-5. Understand the relevance of displacement current in the context of electromagnetic wave propagation.
- CO-6. Study in depth the transient current response of CR, LC, CR and LCR circuits, which is essential in designing as well as understanding the working of electronic circuits.

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B.Sc. II year - Semester IV
Paper - IV
Code No. 6418
Waves and Optics




Course Objective: Wave and Optics


1. This course aims to provide necessary foundation in waves and optics which prepare the students for an intensive study of advanced topics at a later stage.
2. To acquire skills allowing the student to identify and apply formulas of optics and wave physics using course literature.
3. To illustrate the wave characteristic of light.
4. Fresnel diffraction and Fraunhofer diffraction, Plane diffraction grating, Resolving power of grating.
5. Brewster's law, Nicol prism, Double refraction, Polaroid, optical activity, Laurent's Half shade Polarimeter.
6. Describe and discuss technical applications of simple optical instruments.

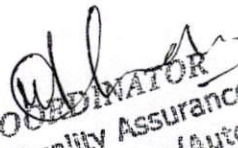
Course Outcomes: Wave and Optics

- CO-1. Use the principles of wave motion and superposition to explain the physics of polarisation, interference and diffraction.
- CO-2. Explain certain phenomena related to wave nature of light.
- CO-3. Calculate wavelength difference and fringe width from the interference pattern.
- CO-4. Understand the properties of light like reflection, refraction, interference, diffraction etc..
- CO-5. Explain diffraction pattern and calculate dispersive power of the grating.
- CO-6. Analyze different types of polarized light.


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B.Sc. III year - Semester V
Paper - V
Code No. 6518 A
Modern Physics - Elective I

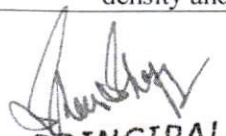


Course Objective: Modern Physics

1. Define the major 20th century developments in Physics.
2. Comprehension of the current basis of broad knowledge in Modern physics.
3. To understand the difference between Atomic and Molecular spectroscopies.
4. Understand the intuitive ideas of the Quantum physics.
5. To understand dual nature of matter.
6. Derive Schrodinger time dependent and time independent wave equations.

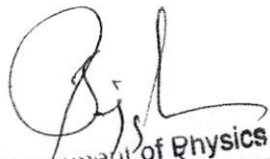
Course Outcomes: Modern Physics

- CO-1. Compare and contrast Modern Physics with Classical Physics.
- CO-2. Describe the atomic spectra of one and two valance electron atoms.
- CO-3. Explain rotational, vibrational, electronic and Raman spectra of molecules.
- CO-4. Understand historical basis of quantum mechanics.
- CO-5. Explain how quantum mechanical concepts answer some of unanswered questions of Classical mechanics such as photoelectric effect, Compton scattering etc.
- CO-6. Understand the theory of quantum measurements, wave packets and uncertainty principle.
- CO-7. Understand the central concepts of quantum mechanics: wave functions, momentum and energy operator, the Schrodinger equation, time dependent and time independent cases, probability density and the normalization techniques.


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B.Sc. III year - Semester V
Paper - V
Code No. 6518 B
Computational Physics - Elective II



Course Objective: Computational Physics

1. This course would introduce students with the basic knowledge of computers their applications in solving common and scientific problems.
2. The course include scientific programming languages.
3. Scientific word processing and graphical analysis.
4. In this Course, we shall familiarise with the main computational tools which permit to simulate and analyse the dynamic behaviour of a wide range of physical problems involving fluids, solids, soft matter and quantum systems, as well as the dynamics of (some) biological and social systems.
5. Special attention will be paid to the modelling/programming techniques involved with the generation of massive amounts of data which result from large-scale simulation of the above systems, as well as to the techniques to analyse and extract physical knowledge from such datasets.
6. The main goal of the course is to make the student acquainted with major computational techniques for solving a broad range of complex problems involving fluids, solids, waves, quantum systems, as well as biological and social systems with internal degrees of freedom (psycho-physics). Techniques to analyse the corresponding large sets of data will also be presented.

Course Outcomes: Computational Physics

- CO-1. The course provides an opportunity to the students to learn about the fundamentals of computer applications in solving the problems in different branches of Physics and Mathematics.
- CO-2. 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.
- CO-3. Read the current literature and appreciate the various approaches to large-scale simulation of scientific and engineering applications.
- CO-4. They would learn basics of C-programming and FORTRAN-90/95 programming languages
- CO-5. Its applications which can useful in their future carrier in the field of research and technology.
- CO-6. Choose and code the most appropriate computational techniques for modelling and data analysing complex problems in physics, engineering biology and also social sciences.
- CO-7. Contribute to research projects involving the simulation and data anal-ysis of complex natural and social systems.

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ANWARUL ULOOM COLLEGE, DEPARTMENT OF PHYSICS

B.Sc. III year - Semester VI
Paper - VI
Code No. 6618 A
Electronics - Elective I



Course Objective: Electronics

1. The students would gain the knowledge of Basic Electronics circuits, network theorems and measuring instruments.
2. They would know about common solid state devices, Semiconductor diodes and transistors
3. This course comprises of basics understanding of power amplifiers, feedback amplifiers, operational amplifiers and optoelectronic devices.
4. The course includes the study of number systems, Boolean algebra, logic gates, combinational circuits, sequential circuits, memory devices and IC technology.
5. The topics also include the Rectifiers, Filters and their applications, number systems and logic gates which are foundation blocks of digital electronics.

Course Outcomes: Electronics

- CO-1. 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 communication systems.
- CO-2. The in depth understanding of electronics at post graduate level opens scope for the students to work in private and public sector enterprises.
- CO-3. The digital electronics has wide applications in computing, process control, signal processing, communication systems, digital instruments etc.
- CO-4. The course is of much practical purpose for the students to learn basics of digital electronics.
- CO-5. This course is helpful for the students seeking job 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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ANWARUL-ULOOM COLLEGE
 Mallepally, Hyderabad-500 001.

B.Sc. III year - Semester VI
Paper - VI
Code No. 6618 B
Applied Optics - Elective II




Course Objective: Applied Optics


1. This course has been formulated to introduce students about the basics of Fraunhofer and Fresnel diffractions, Spatial frequency filtering, Holography etc.
2. To make the student understand the principles of Lasers.
3. To enable the student to explore the field of Holography and Nonlinear optics.
4. To design and develop fiber optic sensors for industrial applications

Course Outcomes: Applied Optics

- CO-1. After completing this course, students would be able to understand the concept of Diffraction, Fourier transforming properties of lens, Electro and magneto optic effects.
- CO-2. The student should have had a knowledge on the different types of lasers.
- CO-3. The student should have understood the basics of nonlinear optics.
- CO-4. Understand the overview of fiber optic sensors and its unique applications.
- CO-5. Understand optical fiber principle, operations, and its applications.

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ANWARUL ULOOM COLLEGE

DEPARTMENT OF BIOTECHNOLOGY

B.Sc. (BT.MC) 2024-2025


Programme Outcomes (General)


PO1.	Critical Thinking: Apply critical thinking and enhance learning in the three major subjects of their choice with scientific reasoning and analytical skills.
PO2.	Problem solving: Think logically and organize task into a structured form for problem solving by applying the knowledge of basic science.
PO3.	Effective communication: To develop the ability of effective communication of scientific information in written and oral format.
PO4.	Individual and team work: Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings.
PO5	Ethics: Apply ethical, moral and social values in personal and professional life leading to holistic development of the individual.
PO6.	Environment and sustainability: Develop interdisciplinary approach to provide better solution and innovative ideas for sustainable development and conservation of natural resources.
PO7.	Self-directed and lifelong learning: Recognize the need for and have the ability to engage in independent, lifelong learning and adapt to technological changes to be globally competent.

Programme Objective (General)

PO1	To make our students competent in the field of biotechnology and its allied areas.
PO2	To inculcate the capability to work as entrepreneurs and techno managers with strong ethics and communication skills.
PO3	To equip the students to pursue higher education and research in reputed institutes at national and international level
PO4	. To develop a working knowledge of biotechnology product and processes.

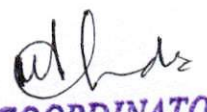

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Programme Specific Outcome (General)

PSO -1	Student is empowered with knowledge of disciplinary and interdisciplinary aspects of Biotechnology.
PSO – 2	Develops critical thinking and is able to apply appropriate tools and techniques in Biotechnological manipulation.
PSO - 3	Develops an ability to justify social, health, safety, legal issues and understand the responsibility towards ethical practices in biotechnology
PSO – 4	Acquire laboratory skills necessary for Biotechnology research, gains practical and theoretical knowledge in Biological chemistry, Structure and functions of carbohydrates, proteins and lipids.
PSO – 5	Acquires knowledge on fundamentals of Microbiology, basic concepts of Prokaryotes, Eukaryotes and different branches of Microbiology.
PSO – 6	Gains an insight into various aspects of Immunology, Virology and realizes the principles of prevention and treatment of microbial diseases
PSO – 7	Grasps the fundamental aspects in the field of Environmental Microbiology and Quality sustenance in industry.
PSO – 8	Understands the concepts and application aspects of Microbiology in Food and Dairy industry, production of metabolites and bioinoculants
PSO – 9	Students can effectively translate the metabolic processes in biological research
PSO – 10	Acquire methodical and logical understanding of the fundamental concepts in Physical, Organic, Inorganic, Analytical and all other integrated Chemistry subjects
PSO - 11	Achieve the ability to synthesize, separate, estimate and characterize compounds using experimental and instrumentation techniques
PSO – 12	Develop critical thinking and problem solving skills through solving by adopting research based pedagogical tools



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Course Objective (B.Sc. Biotechnology)

1	Semester I Cell Biology and Genetics	To comprehend the Mendelian Genetics principles in human, plants and animals. Understand the basic aspects of intracellular organization of Eukaryotic cell.
2	Semester II Nucleic acid, Biostatistics and Bioinformatics	To understand the structure of Nucleic acid. To understand the significance of sampling and data alignment and to deal with computational Biology.
3	Semester III Biological Chemistry	To understand the carbohydrate classification. To comprehend metabolism of lipids, nucleic acid and amino acids.
4	Semester IV Microbiology and Immunology	To learn about Viruses, Algae, Fungi, Protozoa. To learn about the general characteristics of Immune System.
5	Semester V Plant Biotechnology	Plant tissue culture is a collection of techniques used to maintain or grow plant cells, tissues or organs under sterile conditions on a nutrient culture medium of known composition
6	Semester VI Environmental Biotechnology	To study about conservation of rareness by recycling of wastes. To study about environmental problems like detection of pollutants, elimination and detection of wastes.


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Course Outcome (B.Sc. Biotechnology)

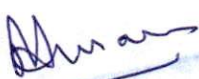
CO - 1	Semester I Cell Biology and Genetics	Ability to apply Mendelian inheritance principles to humans, plants and animals
CO - 2	Semester II Nucleic acid, Biostatistics and Bioinformatics	Understanding the basics of enzymology. Help in derive inferences based on statistical comparison
CO - 3	Semester III Biological Chemistry	Acquaintance with carbohydrate metabolism and networks.
CO - 4	Semester IV Microbiology and Immunology	Understanding the basics of microbiology and microbial classification and immunology
CO - 5	Semester V Plant Biotechnology	Students acquire knowledge about production of improved crop varieties, disease-free plants, Genetic transformation, and production of secondary metabolites, plant varieties tolerant to salinity, drought and heat stresses and synthesis of edible vaccine.
CO - 6	Semester VI Environmental Biotechnology	Students learn to keep the environment clean, to develop environmental friendly products and improve energy sources.


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Department of English

2024 - 2025

Programme: M.A. English

Programme-Specific Outcomes (PLOS) for M.A. English

S. No	Students will be able to
PSO 1	Demonstrate a systematic understanding of the academic field of English Literature, its different branches and applications, and its linkages with related disciplinary areas, which are taught in the Masters' programme.
PSO 2	Demonstrate procedural knowledge that creates different types of professionals related to the subject area of English Literature, including professionals engaged in research and development, teaching and government/public service.
PSO 3	Demonstrate skills in areas related to one's specialization within the area of English Literary Studies and emerging developments in the field.
PSO 4	Demonstrate the ability to use the knowledge of English Literature in formulating reading habits and writing critically after interpreting literary texts in the classroom and other spheres.
PSO 5	Recognize the importance of qualitative as well as quantitative data and approaches/methods in order to comprehend and analyze native, regional and global traditions of knowledge.
PSO 6	Plan and execute field investigations, analyze and interpret critical articles/data collected using appropriate methods, including the use of theoretical frameworks such as Marxism, Colonialism, Postcolonialism, Posthumanism, Structuralism, Cyberculture, etc.
PSO 7	Demonstrate relevant problem-solving skills and global competencies to address and respond to the aesthetic, literary and social dimensions of gender, class, caste, region through interdisciplinary methods.
PSO 8	Develop communication skills involving the ability to comprehend, read texts and write research papers analytically and present complex information in a concise manner to different national and international audiences.

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Course Outcomes (CO's): M.A English

2024 -2025

Semester- I

Course Title: The English Language,History,Structure and Description.The English Poetry.American Literature.Indian Writing in English.

Course Code: 101,102,103,104.

S.No	Students will be able to
CO 1	To introduce students to the major moments.
CO 2	To introduce students to the figure of English Literature.
CO 3	To help them recognize the distinctive ways in which the writers differ.
CO 4	To recognize the writers ideological positions from their counter parts.
CO 5	To introduce students to the major moments of selected literary texts.

Semester II

Course Title:English Language Teaching,Hiatory,Approaches and Methods.English Drama.American Literature-II.Indian Writng in English-II

Course Code: 201,202,203,204.

S.No	Students will be able to
CO 1	To enable them to critically examine the writers thematic concerns.
CO 2	To point out the writers concerns in the post colonial contexts.
CO 3	To enhance the knowledge of learners syntactic features of English Language.
CO 4	To acquaint students with the basic concepts and issues in linguistics.
CO 5	To acquaint students with the various sub-disciplines of linguistics.

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Semester III

Course Title: Major Development in Language Acquisition and Language Learning, English Prose, Academic Writing and Research Methodology, Twentieth Century Literary Criticism and Theory.

Course Code: 301,302,303,304.

S.No	Students will be able to
CO 1	To introduce the various phases of Indian Writing in English.
CO 2	To make them aware of Indian Cultural ethos.
CO 3	To make them aware of Indigenous belief system in literary works.
CO 4	To help them to appreciate the variety and diversity of Indian Writing in English.
CO 5	To enable students to understand the Language Learning theories and Language Testing.

Semester IV

Course Title: English Language Teaching: Curriculum Development, Teaching and Evaluation, English Fiction, Postcolonial Literature.

Course Code: 401,402,403.

S.No	Students will be able to
CO 1	To enable them in understanding the production of course materials.
CO 2	To introduce students to the concepts of Academic Writing.
CO 3	To make students aware of how to write Academic Prose in English.
CO 4	To enable students in understanding the shifts in Reading and Writing practices with the advent of Digital Technology.
CO 5	To acquaint students with the different strategies of Reading.

Course: Project Work (404)

S.No	Students will be able to
CO 1	To learn how to write a Project and its Skills.
CO 2	To acquaint the rules of Writing a paper and confident in presenting a Project

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Department of Botany


2024 - 2025


Programme:

Programme-Specific Outcomes for M.Sc. Botany

S. No	Students completing M.Sc. botany will be able to
PSO 1	Exhibit a thorough understanding of the anatomy, physiology, genetics, taxonomy, and ecology of plants.
PSO 2	Apply the concepts of molecular biology, biotechnology, and bioinformatics to comprehend plant systems.
PSO 3	Recognize and promote for the value of plant protection and biodiversity.
PSO 4	Evaluate how human activity affects plant ecosystems and suggest ways to mitigate the effects.
PSO 5	Enhance botanical research and uses by incorporating information from allied fields including chemistry, environmental science, and microbiology.
PSO 6	Get equipped for careers in academia, government organizations, business, and research facilities.
PSO 7	Encourage originality and inventiveness in the solution of ecological and botanical issues.
PSO 8	Develop entrepreneurial skills for initiating and managing botanical ventures and start-ups.


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Course Outcomes (CO's): M.Sc. Botany

2024 -2025

Semester I

Course Title: Phycology & Mycology, Bryophytes & Pteridophytes, Angiosperm Systematics, Plant Biochemistry

S.No	Students will be able to
CO 1	Explore algae and fungi's diversity, classification, morphology, and life cycles.
CO 2	Analyze and critically evaluate bryophytes' and pteridophytes' ecological roles and evolutionary significance, integrating their physiological adaptations and reproductive strategies to assess their contributions to biodiversity and ecosystem functioning.
CO 3	Critically evaluate the principles and methodologies of angiosperm systematics, applying modern taxonomic techniques and molecular data to classify and understand flowering plants' evolutionary relationships and biodiversity.
CO 4	Examine the biochemical principles of plant metabolism, focusing on the molecular mechanisms of key metabolic pathways and their role in plant growth, development, and adaptation to environmental stresses.
CO 5	Explore the molecular basis of plant biochemical processes, including the structure and function of biomolecules like carbohydrates, lipids, proteins, and nucleic acids.

Semester II

Course Title: Phycology & Mycology, Gymnosperms & Embryology, Plant Anatomy & Palynology, Plant Physiology

S.No	Students will be able to
CO 1	Examine the physiological processes of algae and fungi, such as growth, metabolism, and enzyme production.
CO 2	Interpret the processes of plant embryogenesis, from gametogenesis to seed development, understand the genetic, molecular, and environmental factors that regulate these stages, and apply this knowledge to research and practical applications in plant science and agriculture.
CO 3	Analyze and critically evaluate gymnosperms' diversity, structure, reproduction, and evolutionary significance.
CO 4	Know the economic importance of gymnosperms, exploring their uses in timber production, horticulture, medicine, and other industries and its conservation strategies.
CO 5	Learn the key concepts and processes in plant physiology, including photosynthesis, respiration, nutrient uptake, and hormone regulation, to understand how plants grow, develop, and respond to environmental stresses.

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Semester III

Course Title: Cell Biology, Genetics & Statistics, Environmental Pollution & Protection, Molecular Genetics, Plant Tissue Culture & Biotechnology

S.No	Students will be able to
CO 1	Learn to apply cell biology and genetics concepts to comprehend cellular processes, inheritance, and molecular mechanisms, enhancing their research, analysis, and application in biology and medicine.
CO 2	Apply the principles of environmental pollution, its sources, impacts, and management strategies to assess and develop solutions for mitigating pollution and promoting environmental protection in various sectors, such as industry, urban development, and agriculture.
CO 3	Integrate and apply key concepts of molecular genetics, including DNA structure and replication, gene transcription and translation, and the regulation of gene expression, to analyze genetic information, understand genetic inheritance patterns,
CO 4	Learn and demonstrate proficiency in basic plant tissue culture techniques, such as media preparation, sterilization procedures, and establishment of callus, suspension, and organ cultures.
CO 5	To develop innovative solutions for enhancing crop yield, quality, and resilience, to apply advanced plant biotechnology techniques to address challenges in agriculture, crop improvement, and environmental sustainability, including genetic modification, tissue culture, and bioinformatics.

Semester IV

Course Title: Ecology & Phytogeography, Horticulture & Plant Breeding, Molecular Genetics & Recombinant DNA Technology

S.No	Students will be able to
CO 1	Utilize ecology and phytogeography principles to study plant species distribution, abundance, and interactions, aiding in understanding ecological patterns and developing conservation strategies.
CO 2	Examine plant species distribution patterns across various landscapes, utilizing historical biogeography, environmental factors, and ecological processes to explain plant diversity and community composition.
CO 3	Demonstrate proficiency in horticulture principles, crop production, pest management, and landscape design, specializing in commercial, ornamental, and sustainable agricultural purposes.
CO 4	Learn to develop new cultivars with improved traits through breeding techniques, genetic diversity analysis, breeding methods, and selection criteria to tackle agricultural and environmental challenges.
CO 5	Understand the mechanisms of gene expression in prokaryotic and eukaryotic systems.

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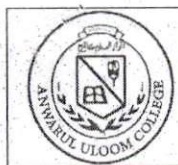
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Course: Project

S.No	Students will be able to
CO 1	Explore the practical aspects of the techniques learned in the theoretical syllabus.
CO 2	Learn new research techniques to add to their skill set and prepare them for the industry.


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M.COM

DEPARTMENT OF COMMERCE

PROGRAM OUTCOMES [POS]

PO-1	Develop a systematic and rigorous learning and exposure to Accounting and finance related disciplines.
PO-2	Able to understand conceptual, applied and research skills as well as competencies require for effective problem solving and right decision making in routine and special activities relevant to financial management and business transaction.
PO-3	Learn about the conventional as well as contemporary areas in the discipline of commerce.
PO-4	Develop managerial skills by adopting practical approaches such as case study, assignment writing and application of digital technology.
PO-5	Develop for conducting the business, accounting practices, role of regulatory body's cooperate and financial sectors.
PO-6	Understand in depth understanding of all core areas specifically managerial accounting, cost accounting and control, financial management, business environment, research methodology and tax planning.

PROGRAM SPECIFIC OUTCOMES [PSO]

PSO -1	After completing masters in commerce students are able to develop and apply knowledge in different areas of financial management, management accounting and tax planning.
PSO -2	To develop decision is making skills through costing methods and practical application of management accounting principles.
PSO -3	To enhance the computer skills and its applicability in business through latest version on tally and e commerce principle.
PSO -4	Able to work in teams with enhanced interpersonal skills and communication.
PSO -5	Students can work in different domains like accounting taxation, HRM, Banking and administration.

Shobana Rao

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COURSE OUTCOMES (COs)

CO -1	The students can able to understand the Indian Accounting standards and IFRS
CO-2	The Students can able to prepare and analyzed the various financial statements.
CO-3	The students learns about principles and functions of strategic management.
CO-4	The Students are able to know about Research methodology, data analysis techniques, interpretation and report writing
CO-5	The students shall be capable of applying principles and techniques as professionals for developing and managing human resource in an organization.

Shobhaba

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SEMESTER - I [M.COM]

COURSE OBJECTIVES

INDIAN ACCOUNTING STANDARDS

COS -1	To familiarize the student with accounting standards and financial reporting practices
COS-2	To provide a standard for the diverse accounting policies and principles
COS-3	To provide standards which are transparent for users
COS-4	To define the standards which are comparable over all periods presented.
COS-5	To provide a suitable starting point for accounting.

COURSE OUTCOMES

INDIAN ACCOUNTING STANDARDS

COS -1	To introduce and develop knowledge of Indian Accounting Principles.
COS-2	To make them aware about Indian Accounting Standards. (1 to 21)
COS-3	Keep them aware about Indian Accounting Standards (23 to 41)
COS-4	To make the students aware about Indian Accounting Standards (101 to 106)
COS-5	5. To develop knowledge of Indian Accounting Standards (107 to 115)

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COURSE OBJECTIVES

MANAGERIAL ECONOMICS & BUSINESS ENVIRONMENT

COS -1	1. To develop an understanding of fundamental economic concepts relevant to managerial decision-making.
COS-2	2. To familiarize students with the role of demand, supply, and market structures in business decisions.
COS-3	3. To provide insights into cost analysis, pricing strategies, and production decisions in organizations.
COS-4	4. To explain the impact of macroeconomic factors and policies on the business environment.
COS-5	5. To enhance the ability to understand and assess the dynamics of the global business environment.

COURSE OUTCOMES

MANAGERIAL ECONOMICS & BUSINESS ENVIRONMENT

COS -1	1. Students will be able to apply economic principles in analyzing business problems.
COS-2	2. Students can analyze demand and supply conditions for effective decision-making.
COS-3	3. Students will be capable of evaluating cost functions and pricing policies for businesses.
COS-4	4. Students can interpret the influence of fiscal, monetary, and trade policies on businesses.
COS-5	5. Students will be able to assess business opportunities and threats arising from global economic trends.

Shubra Rao

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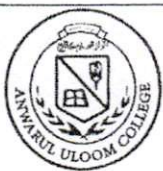
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COURSE OBJECTIVES

MARKETING MANAGEMENT

COS -1	1. To understand about the product management.
COS-2	To understand about price management.
COS-3	To familiarize the students about the techniques of , Promotion management.
COS-4	To sensitize the students about channel management and retailing.
COS-5	5. To equip the students about digital marketing, marketing information system & marketing research.

COURSE OUTCOMES

MARKETING MANAGEMENT

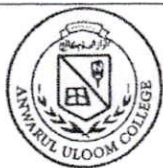
COS -1	To understand the concepts of product management.
COS-2	To understand the concepts of pricing management.
COS-3	Students will able to know about promotional management.
COS-4	To understand the channels of distribution and retailing
COS-5	To understand tge knowledge of digital marketing, marketing information system and marketing Com 5: Elective II research

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COURSE OBJECTIVES

FINANCIAL MANAGEMENT

COS -1	1. To introduce the students about the importance of Finance Management for a business.
COS-2	2. To enable them to understand the various modes of capital budgeting techniques.
COS-3	3. To acquaint the students regarding working capital management.
COS-4	4. To acquaint the students regarding the various types of decisions taken by financial managers in current competitive environment.
COS-5	5. To know about the various dividend decisions.

COURSE OUTCOMES

FINANCIAL MANAGEMENT

COS -1	1. Demonstrate the applicability of the concept of Financial Management to understand the Managerial decisions and to understand time value of money,
COS-2	2. Apply the Capital Budgeting techniques and to find out risk analysis in capital budgeting decisions
COS-3	3. Analyse working capital requirements and Cash management, Accounts receivable management.
COS-4	4. To acquaint with cost of capital, leverages, and capital structure
COS-5	5. Demonstrate with dividend policy and Dividend theories.

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SEMESTER – II

COURSE OBJECTIVES

ADVANCED MANAGERIAL ACCOUNTING

COS -1	To develop students about analysis of financial statement.
COS-2	To impart knowledge on Human Resource Accounting and Responsibility accounting.
COS-3	To know about inflation accounting and income measurement.
COS-4	To equant the students about financial measures of performance.
COS-5	To sensitize the students about contemporary issues in management accounting.

COURSE OUTCOMES

ADVANCED MANAGERIAL ACCOUNTING

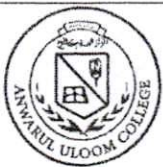
COS -1	Students will able to understand analysis of financial statement.
COS-2	Develop knowledge on human resource accounting & responsibility accounting
COS-3	Students will able to know about inflation accounting and income measurement.
COS-4	Develop the skills in financial measures of performance
COS-5	To understand various contemporary issues in management accounting.

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COURSE OBJECTIVES

ORGANIZATIONAL BEHAVIOUR & HUMAN RESOURCE MANAGEMENT

COS -1	To understand the concept of consumer behavior in a global context.
COS-2	To study cross-cultural factors influencing industrial buying.
COS-3	To explore theories and models of consumer behavior.
COS-4	To understand cultural diversity in marketing practices.
COS-5	To develop skills for international market research.

COURSE OUTCOMES

ORGANIZATIONAL BEHAVIOUR & HUMAN RESOURCE MANAGEMENT

COS -1	Analyze the impact of culture on consumer buying decisions.
COS-2	Compare consumer and industrial buying behaviors across cultures.
COS-3	Apply consumer behavior models in marketing strategies.
COS-4	Design marketing strategies for cross-cultural markets.
COS-5	Conduct consumer research in global business environments.

Shobha Rao

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COURSE OBJECTIVES

E-COMMERCE

COS -1	Introduction to Fundamentals of E-Commerce
COS-2	Students will gain knowledge of about EDI and E-Commerce business models.
COS-3	Students will get awareness about Electronic payments systems
COS-4	Introduction Tally Accounting Software
COS-5	Students will learn about the statements generated in Tally.

COURSE OUTCOMES

E-COMMERCE

COS -1	Know the basic concepts and technologies used in the field E-commerce.
COS-2	Understand the working EDI and Internet
COS-3	Will be able to create a Static web page using HTML.
COS-4	Can generate the account groups and ledgers.
COS-5	Generate Profit & Loss Account Balance sheet and Other MIS reports.

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COURSE OBJECTIVES

INVESTMENT MANAGEMENT

COS -1	To familiarize the students with principles of investment management.
COS-2	To equip about Indian capital markets
COS-3	To know about risk and return analysis.
COS-4	To study in detail about Portfolio analysis and Markowitz model.
COS-5	To help the students understand about Portfolio selection and sharpe single Index model.

COURSE OUTCOMES

INVESTMENT MANAGEMENT

COS -1	Students will able to know the basic concepts, principles of investment and financial assets.
COS-2	Analyze and evaluate Indian capital markets.
COS-3	Students will able to know risk and return analysis.
COS-4	Students will able to know portfolio analysis and Markowitz model.
COS-5	To know about portfolio selection and Sharpe single index model.

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SEMESTER – III

COURSE OBJECTIVES

RESEARCH METHODOLOGY AND QUANTITATIVE TECHNIQUES

COS -1	To enable the students to understand the Quantitative and Qualitative Methods for conducting research.
COS-2	To understand quantitative skills that are required to make business decision.
COS-3	To understand the calculation of Chi Square test.
COS-4	To understand Non-Parametric tests.
COS-5	To understand the Game theory & Liner Programming Problem.

COURSE OUTCOMES

RESEARCH METHODOLOGY AND QUANTITATIVE TECHNIQUES

COS -1	Able to interpret the results from a one-way ANOVA test and Two-way tests.
COS-2	Accurately interpret results from a Chi-Square test.
COS-3	Able to characterize, compare and contrast different Non-parametric test.
COS-4	Able to identify decision alternatives.
COS-5	Students are able to interpret the data analysis the same and able to do a report writing.

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COURSE OBJECTIVES

SECURITY ANALYSIS ANF PORTFOLIO MANAGEMENT

COS -1	To analyze various fundamental basic factors that affect the risk-return of the securities
COS-2	To provide insight about the relationship of the risk and return.
COS-3	To acquaint the students with latest concepts and trends in the securities market.
COS-4	Portfolio management practices in India.
COS-5	To familiarize the students with the fundamental and technical analysis of the diverse investment avenues.

COURSE OUTCOMES

SECURITY ANALYSIS ANF PORTFOLIO MANAGEMENT

COS -1	To understand different investment alternatives in the market.
COS-2	To understand how securities are traded in the market.
COS-3	To able to manage a portfolio
COS-4	To understand basics in the derivatives
COS-5	Demonstrate fundamental and technical analysis of the diverse investment avenues.

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COURSE OBJECTIVES

COST ACCOUNTING AND CONTROL

COS -1	To explain Students to understand a concept of cost accounting and its basics
COS-2	To provide information to students how to maintain accounts when a product passes through different processes
COS-3	To provide knowledge to student about marginal absorption and differential costing
COS-4	To provide knowledge to students regarding budgets and its controls
COS-5	To give information and knowledge to students about standard costing

COURSE OUTCOMES

COST ACCOUNTING AND CONTROL

COS -1	Student will be able to know what is cost accounting and how its is implemented in manufacturing concerns.
COS-2	Students are able to understand how to maintain books of accounts in process costing
COS-3	Student know how to apply different costing techniques
COS-4	Students are able to prepare different types of budgets
COS-5	Students are able to know about standard costing

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COURSE OBJECTIVES

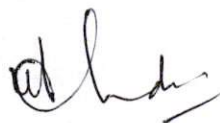
INTERNATIONAL FINANCIAL MANAGEMENT

COS -1	To Explore the complexities of corporate financial management in an international setting. The course emphasis on the drawing of balance of payments,
COS-2	Determination of exchange rates and their relationship. Different types of foreign exchange risk face by MNC.
COS-3	Different types of foreign risks face by the MNC. Identification and measurement of these risks.
COS-4	To explain about international investment decision, FDI and international capital budgeting
COS-5	To explain the scope and structure of international financial market

COURSE OUTCOMES

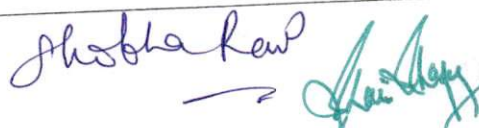
INTERNATIONAL FINANCIAL MANAGEMENT

COS -1	To recognize the difference in the operations in international and domestic financial market. To analyze and prepare the balance of payment for a country.
COS-2	To explain the various ways the exchange rate prevailed over the years in the international market.
COS-3	To recognize the operations in the currency market and solve exchange rate determination in spot and forward market.
COS-4	Able to do problems on capital budgeting decisions, discounting and non-discounting methods.
COS-5	5. Give broad view about selection of sources of funds in international financial market.



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SEMESTER - IV

COURSE OBJECTIVES

STRATEGIC MANAGEMENT

COS -1	Introduction to essentials of strategic management
COS-2	Students are introduced to SWOT Analysis and PEST Analysis.
COS-3	Students will learn about Merges and Acquisitions
COS-4	Students gain knowledge of Organizational issues
COS-5	Students are introduced to Evaluation strategy.

COURSE OUTCOMES

STRATEGIC MANAGEMENT

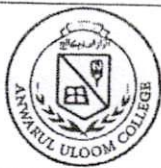
COS -1	Strategic Management Process and Corporate Governance
COS-2	To evaluate environmental analysis.
COS-3	To design vision and mission of the organization.
COS-4	To Performance Evaluating (ROI, EVA, and MVA) - Balanced Score
COS-5	To Control Evaluation techniques for strategic and operational control

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COURSE OBJECTIVES

TAXATION

COS -1	To prepare students to know about partnership firms and assessment u/s 184 and 185. To provide knowledge to student how to treat a partnership firm as association of persons and how to assess them.
COS-2	To provide knowledge to students regarding assessment of companies.
COS-3	To provide knowledge to students regarding assessment of companies and how corporate tax be imposed.
COS-4	To give information and knowledge to students how to assess co operative societies and trust.
COS-5	To provide students' knowledge of GST and customs act its implementation

COURSE OUTCOMES

TAXATION

COS -1	Student know how to apply various provision while assessing a partnership firm as association of persons
COS-2	Students are able to assess different types of companies.
COS-3	Students are able to assess different types of companies compute tax liability.
COS-4	Students are able to assess co operative societies and trust.
COS-5	Students are able to assess GST and customs duty.

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COURSE OBJECTIVES

FINANCIAL DERIVATIVES

COS -1	Understand the meaning and Evaluation of derivatives. Explain the basics of stock index features. Describe the features and types of financial derivatives
COS-2	Distinguish between futures and forward contract
COS-3	Understand the concept of options
COS-4	Understand the basic concepts of swaps and types of swaps.
COS-5	Explain the basics of stock index features.

COURSE OUTCOMES

FINANCIAL DERIVATIVES

COS -1	Demonstrate the concept of various derivatives products such as futures, options and swaps. Analyze and price diverse derivatives products to generate an optimal risk management strategy..
COS-2	Demonstrate the features of forward and futures market. Demonstrate critical thinking, analytical and problem solving skills in the context of derivatives pricing and hedging practices
COS-3	Explain black schole trading model and binomial trading model
COS-4	Able to solve the problems of pricing of currency swaps and interest rate swaps
COS-5	Able to solve the problems of pricing of currency swaps and interest rate swaps

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COURSE OBJECTIVES

PROJECT

COS-1	To understand the concept of consumer behavior in a global context.
COS-2	To study cross-cultural factors influencing industrial buying.
COS-3	To explore theories and models of consumer behavior.
COS-4	To understand cultural diversity in marketing practices.
COS-5	To develop skills for international market research.

COURSE OUTCOMES

PROJECT

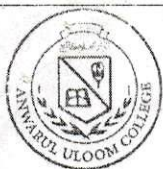
COS-1	Analyze the impact of culture on consumer buying decisions.
COS-2	Compare consumer and industrial buying behaviors across cultures.
COS-3	Apply consumer behavior models in marketing strategies.
COS-4	Design marketing strategies for cross-cultural markets.
COS-5	Conduct consumer research in global business environments.

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Department of Mathematics

2024 - 2025

Programme: M.Sc. Applied mathematics

Program Specific Outcomes for M.Sc. Applied mathematics

S. No	Programme Specific Outcomes for M.Sc. Applied mathematics
PSO 1	Provide in depth knowledge on the core courses of Mathematical Physics, Applied Mathematics and Computational Mathematics, and apply the knowledge of above concepts in various fields like Physical, Biological, computational and social sciences.
PSO 2	Develop analytical abilities and logical thinking to formulate and solve problems that they come across, and also to inculcate innovative skills, working with groups and ethical practices to maintain harmony, and participate for the development of the society.
PSO 3	Enable the student to acquire the necessary problem solving skills by participating in tutorials, seminars and completing an assigned project.
PSO 4	Provide and develop the ability and skills to obtain employment in various organizations and national level fellowships for pursuing research if he/she intends to join a research programme in a chosen field.
PSO 5	Develop the necessary programming skills to acquire knowledge in developing and utilizing software confidently for the problems they undertake in an Industry/Organization in which they are employed.
PSO 6	The two years post graduate programme offered by the department of Applied Mathematics mainly aims to strike a balance between the areas of core Mathematics and Applied & Computational Mathematics.
PSO 7	The course structure is designed to enable the student to seek a teaching career in an Engineering or Polytechnic or Degree or Junior college or pursue research leading to Ph.D. degree after successful completion of the course.
PSO 8	It will also provide inputs for getting gainful employment in software industry, in established Scientific organizations like DRDO, CSIR, NST Labs etc and in Government /Quasi government/private sectors.

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Course Outcomes

M.Sc. Applied Mathematics 2024 -2025

Semester - I

Course Title: Abstract Algebra (Paper-1)

Course Code: AM 101

S. No	Students will be able to
CO 1	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
CO 2	The student will be able to define the concepts of co-set and normal subgroup and to prove elementary propositions involving these concepts.
CO 3	The student will be able to define the concept of subgroup and will be able to determine (prove or disprove), in specific examples, whether a given subset of a group is a subgroup of the group.
CO 4	The student will be able to define and work with the concepts of homomorphism and isomorphism
CO 5	The student will be able to apply the basic concepts of field theory, including field extensions and finite fields.

Surat

Course Title: Mathematical Analysis (Paper-2)



Course Code: AM 102

S. No	Students will be able to
CO 1	Understanding ideas and concept of Riemann – Stieltjes integral and facility in solving standard examples.
CO 2	Understand some important concepts like continuity, compactness, connectedness, projection mapping etc.
CO 3	Fluency in convergence test using standard methods, including the ability to find an appropriate test for a given sequence or series
CO 4	Understanding ideas and concept of differential calculus and facility in solving standard examples.
CO 5	Understanding the ideas of open and closed sets and facility in solving standard examples

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Course Outcomes

M.Sc. Applied Mathematics 2024 -2025

Semester-I

Course Title: Ordinary Differential Equations (Paper-3)

Course Code: AM 103

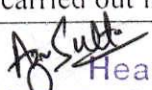
S. No	Students will be able to
CO 1	The student will be able to define the elementary concept of ordinary differential equations.
CO 2	The student will be able to define and work with the concept of integration in series.
CO 3	The student will be able to apply the iteration method.
CO 4	Solve Partial Differential Equation of Second Order
CO 5	Understand the application of Partial Differential Equations

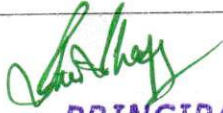
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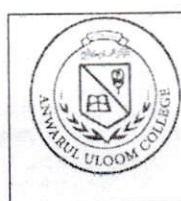
Course Title: Numerical Analysis (Paper-4)

Course Code: AM 104

S. No	Students will be able to
CO 1	Identity and analyse different types of errors encountered in numerical computing
CO 2	Apply the knowledge of Numerical Mathematics to solve problems efficiently arising in science, engineering.
CO 3	Utilize the tools of the Numerical Mathematics in order to formulate the real-world problems from the view point of numerical mathematics.
CO 4	Design, analyse and implement of numerical methods for solving different types of problems, viz. initial and boundary value problems of ordinary differential equations etc.
CO 5	Create, select and apply appropriate numerical techniques with the understanding of their limitations so that any possible modification in these techniques could be carried out in further research.


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Course Outcomes

M.Sc. Applied Mathematics 2024 -2025

Semester II

Course Title: Galois Theory (Paper-1)

Course Code: AM 201

S. No	Students will be able to
CO 1	Understanding of the field extensions and the notion of algebraic and transcendental field extension.
CO 2	Ability of calculating the degree of an algebraic extension and the tower law.
CO 3	Algebraic approach of compass and ruler constructions. Examples. Normal, separable and simple extensions.
CO 4	Ability of calculating the Galois group. Fundamental theorem of Galois correspondence. Intermediate Fields.
CO 5	Examples. Solvable groups. Relationship between solvable groups and polynomials solved by radicals.

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Course Title: Partial Differential Equation (Paper-2)

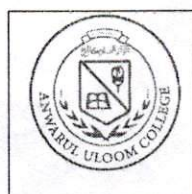
Course Code: AM 202

S. No	Students will be able to
CO 1	The course will enable the Student able to define the basic concept of partial differential Equation
CO 2	Understand the concept of liner partial differential equation
CO 3	The student will be able to apply the Lagrange's method.
CO 4	The student will be able to apply the Charpit's method.
CO 5	Understand the application of Partial Differential Equation in diffusion and Laplace Equation .

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Course Outcomes

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Semester -II

Course Title: Complex Analysis (Paper-3)

Course Code: AM 203

S.No	Students will be able to
CO 1	Represent complex numbers algebraically and geometrically. Define and analyze limits and continuity for complex functions as well as consequences of continuity.
CO 2	Apply the concept and consequences of analyticity and the Cauchy-Riemann equations and of results on harmonic and entire functions including the fundamental theorem of algebra
CO 3	Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy-Goursat theorem in its extended versions, and the Cauchy integral formula
CO 4	Represent functions as Taylor, power and Laurent series, classify singularities and poles, find residues and evaluate complex integrals using the residue theorem.
CO 5	Describe conformal mapping properties of elementary functions and mapping properties of some special transcendental functions.

SAYS

Course Title: Fluid Mechanics (Paper-4)

Course Code: AM 204

S. No	Students will be able to
CO 1	Upon successful completion of the course, the student will be able to Determine the fluid pressure and use various devices for measuring fluid pressure.
CO 2	Calculate hydrostatic force and use of law of conservation mass to fluid flow.
CO 3	Apply Bernoulli's equation to fluid flow problems and boundary layer theory to determine lift and drag forces on a submerged body.
CO 4	Apply appropriate equations and principles to analyze pipe flow problems.
CO 5	Use of different fluid flow measuring devices.

Coordinator

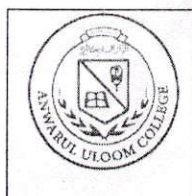
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Principal

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Course Outcomes

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Semester III

Course Title: Finite Difference Method

Course Code: AM 301

S. No	Students will be able to
CO 1	Understand the theory of finite differences.
CO 2	Apply FD to the solution of specific problems as a function of accuracy, condition matrix, and performance of iterative methods.
CO 3	Introduce FD methods for Parabolic Partial differential equations.
CO 4	Introduce FD methods for Hyperbolic Partial differential equations.
CO 5	Introduce FD methods for Elliptic Partial differential equations.

Course Title: Viscous flows

Course Code: AM 302

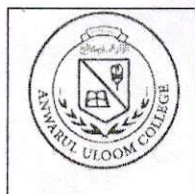
S. No	Students will be able to
CO 1	The course provides the student with knowledge about boundary layer flows around bodies and internal flows which are the building blocks to a wide range of important mechanical and aeronautical engineering problems such as the origin of drag forces in aerodynamics and renewable energy applications such as wind turbines. Students will be able to: Formulate and solve problems in fluid mechanics where viscous effects are important.
CO 2	Apply and modify the boundary layer equations to account for pressure gradient effects and understand when such approaches are valid.
CO 3	Understand similarity solutions, the effect of pressure gradients on the flow, and the origin of drag. Apply approximate methods to solve for the boundary layer profile in flows with arbitrary pressure gradients typical of flows around aerofoils.
CO 4	Understand the basic concepts behind laminar to turbulent transition, the Reynolds decomposition and turbulent boundary layers.
CO 5	Compute critical parameters like the friction factor, shape factor, boundary layer thicknesses, as well as the mean velocity profile for laminar and turbulent boundary layers over simple geometries.

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Course Outcomes

M.Sc. Applied Mathematics 2024 -2025

Semester-III

Course Title: Linear Algebra

Course Code: AM 303

S. No	Students will be able to
CO 1	The course will enable the students to learn about: The fundamental concept of vector spaces with plenty of examples from different mathematical areas and the corresponding vector subspaces.
CO 2	The concept of linear independence of vectors over a field, the idea of a finite dimensional vector space, basis of a vector space and the dimension of a vector space.
CO 3	Basic concepts of linear transformations, the Rank-Nullity Theorem, matrix of a linear transformation, algebra of transformations and the change of basis and Dual space and dual basis of vector space.

Signature

Course Title: Operations Research

Course Code: AM 304(A)

S. No	Students will be able to
CO 1	Define and formulate linear programming problems and appreciate their limitations.
CO 2	Solve LPP using appropriate techniques and optimization solvers, interpret the results obtained and translate solutions into directives for s
CO 3	Conduct and interpret post-optimal and sensitivity analysis and explain their primal-dual relationships.
CO 4	Develop mathematical skills to analyse and solve integer programming, parametric linear programming and network models arising from wide range of applications.
CO 5	Find maximum (of profit or yield) or minimum (of loss or cost) in real world objective.

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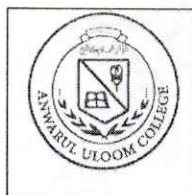
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Course Outcomes

M.Sc. Applied Mathematics 2024 -2025

Semester-III

Course Title: Numerical Analysis

Course Code: AM 305(B)

S. No.	Students will be able to
CO 1	Identity and analyse different types of errors encountered in numerical computing
CO 2	Apply the knowledge of Numerical Mathematics to solve problems efficiently arising in science, engineering.
CO 3	Utilize the tools of the Numerical Mathematics in order to formulate the real-world problems from the view point of numerical mathematics.
CO 4	Design, analyse and implement of numerical methods for solving different types of problems, viz. initial and boundary value problems of ordinary differential equations etc.
CO 5	Create, select and apply appropriate numerical techniques with the understanding of their limitations so that any possible modification in these techniques could be carried out in further research.

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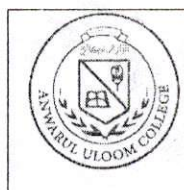
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Shirish

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Abhinav R

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Course Outcomes

M.Sc. Applied Mathematics 2024 -2025

Semester – IV

Course Title: Integral Equation & Calculus of Variation

Course Code: AM 401

S.No.	Students will be able to
CO 1	Students would be able to: Understand the methods to reduce Initial value problems associated with linear differential equations to various integral equations.
CO 2	Categorise and solve different integral equations using various techniques.
CO 3	Describe importance of Green's function method for solving boundary value problems associated with nonhomogeneous ordinary and partial differential equations, especially the Sturm-Liouville boundary value problems.
CO 4	Learn methods to solve various mathematical and physical problems using variational techniques.

SAS

Course Title: Finite Element Methods

Course Code: AM 402

S. No	Students will be able to
CO 1	Upon successful completion of this course you should be able to: Understand the concepts behind variational methods and weighted residual methods in FEM.
CO 2	Identify the application and characteristics of FEA elements such as bars, beams, plane and isoparametric elements, and 3-D element.
CO 3	Develop element characteristic equation procedure and generation of global stiffness equation will be applied.
CO 4	Able to apply Suitable boundary conditions to a global structural equation, and reduce it to a solvable form.
CO 5	Able to identify how the finite element method expands beyond the structural domain, for problems involving dynamics, heat transfer, and fluid flow.

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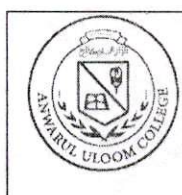
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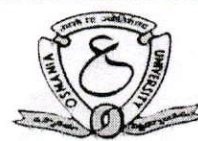


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Course Outcomes

M.Sc. Applied Mathematics 2024 -2025

Semester-IV

Course Title: Functional Analysis

Course Code: AM 403

S. No	Students will be able to
CO 1	To learn to recognize the fundamental properties of normed linear space and to learn classify the standard examples.
CO 2	To understand the Banach space.
CO 3	Demonstrate accurate and efficient use of compactness.
CO 4	To explain the conjugate space and learn to use properly the specific techniques for conjugate of an operators over the Banach space.
CO 5	To apply open mapping theorem and closed mapping theorem

SAM

Course Title: Magnetohydrodynamics

Course Code: AM 404(A)

S. No	Students will be able to
CO 1	When completing the course, the student should be able to: describe the MHD spectrum and characterise the MHD waves in a cylinder and the basic modifications in a toroidal geometry
CO 2	Describe the basic structure of magnetic field lines in a three dimensional geometry and magnetic confinement.
CO 3	describe the basic MHD instabilities and how they limit magnetic confinement
CO 4	Describe how resistivity modifies the MHD theory and the implication on stability.
CO 5	Describe the non-linear evolution of common MHD instabilities in plasmas.

A. Subba
Head

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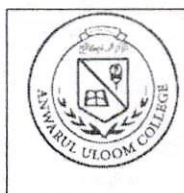
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Course Outcomes

M.Sc. Applied Mathematics 2024 -2025

Semester-IV

Course Title: Advance Operations Research

Course Code: AM 405(B)

S. No	Students will be able to
CO 1	This course introduces some key concepts of optimization techniques.
CO 2	Study on some optimization techniques like Game theory, job sequencing techniques, exposure to inventory management and Replacement problems, their solution techniques in real world problems.
CO 3	Introducing the concepts of Queuing models and their solutions.
CO 4	Improves the logical thinking ability of the students and helps gain access to various employment opportunities.
CO 5	Infuses practical knowledge that helps in pursuing higher studies as well as getting employment.


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ANWARUL ULOOM COLLEGE

DEPARTMENT OF BIOTECHNOLOGY

M.Sc. Biotechnology 2024-2025

Programme Outcomes (General)

PO – 1	Develops an understanding of scientific theory principles and perspectives in sciences by critical thinking.
PO – 2	Develops problem solving skills and is able to design and carry out innovative research projects.
PO – 3	Communicates effectively, comprehends knowledge, writes effective reports, designs documentation and makes effective presentations.
PO – 4	Functions effectively as an individual, as a member and leader of diverse teams in multidisciplinary settings for Holistic development.
PO – 5	Applies ethical principles and is committed to professional ethics, responsibilities in the field of research, is able to design, analyze, interpret data and find solutions for complex problems by applying the right tools. This study provides an excellent bridge between undergraduate study and PhD research.
PO – 6	Realizes and promotes environmental sustainability through various eco-friendly measures that encourage judicious use of resources.
PO – 7	Postgraduate studies boost the self directed career progress and outline the career paths. It improves the ability to tackle complex and challenging assessment tasks and helps in lifelong learning to be globally competent.
PO - 8	Takes up responsibilities in production, quality testing, designing and marketing which contribute to the growth of industry and thus increases employability.



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Programme Objective (General)

1	Recapitulate the previous knowledge of cell biology and to establish thorough understanding of various cell structure and function at molecular level.
2	Provide a thorough understanding of the various molecular biology concepts in study of cell biology and to study the different tools and techniques used to study the biology of cell at molecular level
3	Provide students with a deep insight about the motility of the cell with emphasis on the molecular motors, cell adhesions, molecular biology involved in the movement process involved in movement of Cilia and Flagella.
4	Teach our students to have a concrete knowledge about cell to cell communication in animals as well as plants and to study about the basis of the interaction as well as the genes involved in it.
5	Acquire in-depth knowledge of the molecular events involved in cell division which includes mitosis, meiosis, cell cycle and its regulation. Including. To provide wider and global perspective of cell cycle regulation and cancer, with an ability to discriminate, evaluate, analyse and synthesise existing and new knowledge, and integration of the same for enhancement of knowledge.

Programme Specific Outcome (General)

PSO 1	Acquires and demonstrates competency in laboratory safety. Develops routine and specialized microbiological laboratory skills applicable to research, hospitals and industries
PSO 2	Applies statistical and bioinformatics tools for interpretation of biological data and gains expertise in Computational Biology.
PSO 3	Acquires knowledge of structural and enzymatic properties of microbes and fermentation engineering, to develop human / environment friendly products or processes.
PSO 4	Gets familiarized with principles and techniques of various basic and analytical instruments used in laboratories
PSO 5	Recognizes the importance of IPR and Patenting. Gain Entrepreneurial skills to initiate Startup.
PSO 6	Gets trained in bimolecular mechanisms involved in life processes, health and diseases.
PSO 7	Gains proficiency in related disciplines such as Molecular Biology, Pharmaceutical Sciences, Nan biotechnology and Immunology.
PSO 8	Explores the life forms at cellular, molecular and nano levels. Understands amazing properties of microbial world and appreciates the beauty of microbial life forms.
PSO 9	Assesses the role of microbes in improving soil quality and agricultural output through sustainable microbiological applications.
PSO 10	Work as Health care professionals in the fields of laboratory management, hospital and community services, in development & preparation of Study material for visually challenged

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Course Objective (M.Sc. Biotechnology)

SEMESTER - I		
1	Cell Biology and Genetics	<ul style="list-style-type: none"> Obtain basic knowledge of hierarchical structure and organization of chromosomes, insight into chromosomal anomalies and learn the science behind genemapping in eukaryotes.
		<ul style="list-style-type: none"> To comprehend the biochemical and molecular processes of cell division and cell death.
2	Biological Chemistry	<ul style="list-style-type: none"> To learn the cellular signalling process.
		<ul style="list-style-type: none"> To understand the carbohydrates classification and metabolism.
		<ul style="list-style-type: none"> To comprehend metabolism of Lipids, Nucleic acids and Amino acids.
3	Microbiology	<ul style="list-style-type: none"> To learn about general characteristics of Bacteria: Bacterial isolation, growth, culturing and preservation, isolation.
		<ul style="list-style-type: none"> To learn about general characteristics of microorganisms, microscopy, sterilization, containment.
4	Biostatistics, laboratory management and safety, entrepreneurship	<ul style="list-style-type: none"> To understand the concept of applying appropriate test statistics
		<ul style="list-style-type: none"> To know the importance of entrepreneurship.
		<ul style="list-style-type: none"> To learn laboratory management and safety.

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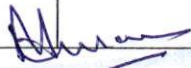
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SEMESTER - II		
1.	Molecular Biology- The Genome	It is the study of cell, their structure, function, growth and chemical process. It helps in depicting genomic organization.
2.	Molecular Biology- Genes to Protein	It helps in determining the function of genes and elements that regulate genes throughout the genome.
3.	Immunology	It helps in studying important factors related with the treatment of many diseases. Development of auto antibodies against self antigens of various diseases
4.	Microbial Technology	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 culture.

Semester - III		
1.	r.DNA Technology	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.
2.	Bioinformatics	It helps to deal with computational management and analysis of biological information.
3.	Food Biotechnology	To study the fundamental, Physical, Chemical and Biochemical nature of foods. To study about principles of food processing.
4.	Animal Biotechnology	To study about the set of Biological tools and techniques used in animals for the development of products of commercial value.


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SEMESTER - IV		
1.	Bioprocess Engineering	It deals with design and development of equipments and processes for the manufacture of products like agriculture, food, pharmaceuticals etc...
2.	Medical Biotechnology	To study how living cells are used for research and production of pharmaceutical and diagnostic products that can treat and prevent human diseases.
3.	Environmental Biotechnology	To study about conservation of rareness by recycling of wastes. To study about environmental problems like detection of pollutants, elimination and detection of wastes.
4.	Project Work	To demonstrate the personal skills required to produce and present an extended piece of work. The students learn to choose relevant techniques.


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Course Outcomes (M.Sc. Biotechnology)

SEMESTER - I		
1.	Cell Biology and Genetics	<ul style="list-style-type: none"> Comprehend the cellular architecture and processes. Ability to apply Mendelian inheritance principles to humans, plants, animals. Knowledge regarding the basic mechanisms underlying cell division and cell death.
2.	Biological Chemistry	<ul style="list-style-type: none"> Understanding of how cells communicate and carry out Physiological processes. Understanding the basics about bimolecular ,Bioenergetics and enzymology
3.	Microbiology	<ul style="list-style-type: none"> To culture different bacteria and know how to preserve them. Understanding the basics of Microbiology and Microbial classification.
4.	Biostatistics, laboratory management and safety ,entrepreneurship .	<ul style="list-style-type: none"> Good Laboratory Practices How to be a successful entrepreneur Learn to estimate appropriate descriptive measures for a data in a given study design.

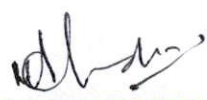

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SEMESTER - II		
1.	Molecular Biology- The Genome	The subject gives in depth; knowledge of biological process through the investigation of molecular mechanism.
2.	Molecular Biology- Genes to Protein	The subject helps to form a research career in Molecular Biology or related areas
3.	Immunology	Students can learn about the latest research and development being carried out in Biotechnology and related areas.
4.	Microbial Technology	Students can use micro-organisms to produce products of economic value and to decompose municipal and industrial wastes.


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SEMESTER - III		
1.	rDNA Technology	It enables the creation of multiple copies of genes and gene manipulation.
2.	Bioinformatics	It helps the student to understand and organize the information associated with molecules on a large scale
3.	Food Biotechnology	Students learn about preservation, processing, packaging and distribution of food. Individuals can learn about sensory properties of food.
4.	Animal Biotechnology	Students can learn about Animal cell, tissue and organ culture techniques like IVF and Embryo transfer.

SEMESTER – IV		
1.	Bioprocess Engineering	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.
2.	Medical Biotechnology	Students can learn about genetic disease and relate them to medical experience. They learn of gene therapy.
3.	Environmental Biotechnology	Students learn to keep the environment clean, to develop environmental friendly products and improve energy sources.
4.	Project Work	Students learn to show enthusiasm and commitment to the task. They learn to show overall perspective related to chose topic.

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Department of Microbiology

2024 - 2025

Programme: M.Sc. MICROBIOLOGY

Programme-Specific Outcomes for M.Sc. Microbiology

S.No.	Students completing M.Sc. Microbiology will be able to
PSO 1	Understand fundamental principles involved in Microbiology, Microbial Physiology, Microscopy, bacterial taxonomy and classification. Next-Generation Sequencing (NGS) Techniques & CRISPR-based Identification.
PSO 2	Acquire detail knowledge of virology, structure and replication of viruses, cultivation and detection methods. Knowledge of Viral Oncogenesis.
PSO 3	Learn the concept of research & techniques; study the analytical principles of research methodology & equipments. Learn about statistical tools used in life science research. AI & ML in research awareness.
PSO 4	Study Microbial Biochemistry, structure and function of biomolecules and their importance in microorganisms including their mechanism of action. Metabolic pathways in Microbes.
PSO 5	Learn genomics, gene technology, application of recombinant technology, techniques in molecular biology, medical bacteriology and diagnostic applications. CRISPR-Cas technology & Gene Editing.
PSO 6	Study the relationship between microorganisms and soil, plants, and animals and their benefits to the environment. Role of Microbial Fuel Cell.
PSO 7	Acquire detail knowledge of medical microbiology with reference to viral diseases, insect borne diseases, acquaint with concepts of Immunity, Antigen, Antibody and Immune, System and diagnostic labelled techniques. Cell surface molecules and receptors, regulation of immune response, infection and immunity, immunological disorder, immune system evolution
PSO 8	Learn the principle of chemotherapy and their mode of action. Study the effect of microorganisms in pharmaceutical, fermentation, biotech. food and industries, Artificial Intelligence in Microbial Monitoring.

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Course Outcomes (CO's): M.Sc. Microbiology

2024 -2025

Semester I

Course Title: General Microbiology - Paper-I

Course Code: MB 102

S.No.	Students will be able to
CO 1	Learn the introduction and history of microbiology, microscopy principles, working applications, microbial cell structure, sterilization & Microbial identification methods
CO 2	Acquire knowledge of principles of bacterial taxonomy, classification, microbial growth, growth phases of bacteria and synchronous cultures
CO 3	Learn about various microbiological medias and cultivation of bacteria, fungi and algae.
CO 4	Learn how to preserve and maintain microbial cultures, Study microbial nutrition and their metabolism
CO 5	Knowledge of Next-Generation Sequencing (NGS) Techniques & CRISPR

Course Title: Virology – Paper-II

Course Code: MB 102

S.No.	Students will be able to
CO 1	Explain virology, virus structures and morphology
CO 2	Detect viruses by physical, biological, serological and molecular methods.
CO 3	Describe virus replication strategies, characteristics and replication of bacteriophages and structure, characteristics and replication of different viruses
CO 4	Explain Recombination of phages & describe tumor virus, viral interference and interferon.
CO 5	Explain viral vaccines and their importance & Viral Oncogenesis

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Course Title: Research Methodology & Techniques – Paper-III

Course Code: MB 103

S.No.	Students will be able to
CO 1	Demonstrate colorimeter, spectrophotometer, electrophoresis techniques, chromatography techniques
CO 2	Detect and measure radio isotopes
CO 3	Solve the biological problems statistically
CO 4	Operate computers, DOS and Windows, Computational Tools and Techniques in Microbial Research
CO 5	Explain rules of data collection, repetition, manuscript preparation, QA, QC, GLP, GMP, patents & IPR Artificial Intelligence and Machine Learning in Research

Course Title: Microbial Biochemistry – Paper-IV

Course Code: MB 104

S.No.	Students will be able to
CO 1	Preparation of buffers
CO 2	Concept for entropy, high energy compounds, biological redox system, and electron transport system.
CO 3	Describe classification and biological importance of lipids and carbohydrates nucleic acids, amino acids, proteins, and enzymes.
CO 4	Explain isolation and purification of enzymes and mechanism of enzymes action.
CO 5	Explain regulation of enzyme activity & Microbial Metabolic pathways

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Semester II

Course Title: Molecular Biology & Microbial Genetics – Paper-I


Course Code: MB 201

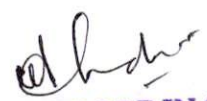
S.No	Students will be able to
CO 1	Understand the fundamental of genetics
CO 2	Explain definition, types of mutation and mutagens
CO 3	To learn the concept of DNA damage and Repair mechanism, and brief account on gene transfer among bacteria.
CO 4	Discuss the concept of gene, gene hypothesis, genetic code and regulation of gene expression in bacteria. Introduction to CRISPR-Cas technology & Gene Editing
CO 5	Describe the Principles of genetic engineering, genomic and cDNA libraries


Course Title: Immunology – Paper-II

Course Code: MB 202

S.No	Students will be able to
CO 1	Understand the development of immunology and its scope
CO 2	Explain concept of Immunity and its types, Antigen, Antibody, Immune system
CO 3	Describe primary and secondary organs and cells of immune system with their identification and functions, Describe Lymphocytes (T and B cell) and Perform labelled antibody techniques -ELISA, RIA and immunofluorescence.
CO 4	Demonstrate practical aspects of Antigen-Antibody Interaction and types: Precipitation and Agglutination, Perform Blood grouping
CO 5	Explain hypersensitivity and autoimmunity. Immuno-Oncology & AI in Immunology


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Course Title: Industrial Microbiology – Paper-III


Course Code: MB 203

S.No	Students will be able to
CO 1	Know the importance of industrial microbiology and fermentation
CO 2	Describe fermentation media, sterilization and types of fermentation processes
CO 3	Discuss about bioreactors and prepare microbiological medias for fermentation
CO 4	Explain fermentative production of alcohol, beer and wine
CO 5	Explain fermentative production of tetracycline and downstream strategies for product recovery. industrial applications of CRISPR technology.

Course Title: Pharmaceutical Microbiology – Paper-IV

Course Code: MB 204

S.No	Students will be able to
CO 1	Know about the pharmaceutical industries, various pharmacopeias, microbiological issues for inspection of pharmaceutical facilities
CO 2	Discuss concept of GxP and FDA's CAPS, OOPs, SOPs, ISO, WHO and US certification. Pharmaceutical Water Microbiology
CO 3	Describe chemotherapy, antimicrobials antibiotics and types of antibiotics
CO 4	Perform antimicrobial effectiveness testing and cosmetic products and preservatives
CO 5	Perform drug sensitivity testing methods and their importance. Artificial Intelligence in Microbial Monitoring


Head of Department
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Semester III



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Course Title: Environmental and Agricultural Microbiology – Paper-I

Course Code: MB 301


SEM - III

S.No	Students will be able to
CO 1	Understand microorganisms of air and role of microorganisms in climate change
CO 2	Explain water borne pathogenic microorganisms and water treatment. Role of Microbial Fuel Cell in WWT
CO 3	Describe the microorganisms in soil
CO 4	Discuss microbial degradation and bioremediation of environmental pollutants
CO 5	Explain agricultural microbiology, role of microorganisms in nitrogen fixation and biofertilizers


Course Title: Medical Bacteriology – Paper-II

Course Code: MB 302

S.No	Students will be able to
CO 1	Classify the medically important microorganisms and pathogenic microorganisms
CO 2	Explain the types and source of infections, Point-of-Care Diagnostics
CO 3	Perform experiments of diagnostic microbiology
CO 4	Discuss Systematic bacteriology of air borne infections and sexually transmitted diseases caused by bacteria
CO 5	Describe Systematic bacteriology of water borne infections, wound infection, MRSA and biomedical waste management


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Course Title: Cell and Molecular Biotechnology – Paper-III

Course Code: MB 303

S.No	Students will be able to
CO 1	Explain cell cycle, signal transduction, cAMP and GMP.
CO 2	Explain protein folding and the roles of molecular chaperones, CRISPR-Cas9 Technology.
CO 3	Discuss analysis of protein-protein and protein DNA interactions. 3D Bioprinting
CO 4	Explain Bioinformatics and perform biological information with bioinformatic tools
CO 5	Perform AI-Powered Molecular docking and in-silico ADME and toxicity calculations

Course Title: Entrepreneurship in Microbial Sciences – Paper-IV

Course Code: MB 304

S.No	Students will be able to
CO 1	Describe Entrepreneurial society entrepreneur development, entrepreneur, entrepreneurship, MSMEs, Enterprise & Startups process.
CO 2	Explain Microbial entrepreneurship, Application of Artificial Intelligence for Market Analysis and Predictive Analytics in Microbial Product Development
CO 3	Know about CRISPR based technologies for metabolic engineering. Perform practical aspects to set up of labs for soil and water
CO 4	Become expert in documentation, accreditation and permission protocols to set up clinical microbiology labs.
CO 5	Understand IPR, regulatory issues and funding procedures for startups, moreover describe bioethics. AI for strategic decision-Making in microbial startups.

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Course Title: Food Microbial Technology – Paper-I

Semester IV

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Course Code: 401

SEM-IV

Food Microbial Technology

PAPER-I

S.No	Students will be able to
CO 1	Demonstrate bacteriological examination of fresh and canned foods.
CO 2	Describe dairy microbiology and fermented foods
CO 3	Use microorganisms as food
CO 4	Understand spoilage of raw and processed or canned food,
CO 5	Apply quality control microbiological criteria, HACCP, GMP, microbiological standards codex Alimentarius and food legislations. Understand the role of 3D printing technologies in food industries.

Course Title: Medical Virology & Parasitology – Paper-II

Course Code: 402

S.No	Students will be able to
CO 1	Explain diagnostic virology & cultivation of pathogenic viruses in lab animals and tissue culture
CO 2	Describe structure, cultivation, pathogenicity, lab diagnostics, prevention and control of air viral infections
CO 3	Describe structure, cultivation, pathogenicity, lab diagnostics, prevention and control of transmitted by water and zoonosis
CO 4	Explain sexually transmitted viral diseases. Understand the application of CRISPR-Cas technology/system in Medical Virology
CO 5	Explain structure, cultivation, pathogenicity, lab diagnostics, prevention and control of protozoan and fungal infections.

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Course Title: Microbial Ecology: Host Microbe Interactions

Paper II



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Course Code: 403

Microbial Ecology: Host Microbe Interactions - PAPER-III

S.No	Students will be able to
CO 1	Explain microbial ecology and microbial diversity in ecosystem. Sequence based approach (NGS)
CO 2	Describe host plant and microbe interactions
CO 3	Discuss plant pathogen interactions and concept of plant immunity
CO 4	Describe host animal and microbe interactions
CO 5	Explain role of human microbiome in infections and microbiome engineering & restoration. Study Microbiome and one health concept

Course: Project

S.No	Students will be able to
CO 1	Will do research in current global microbiological issues in various streams of microbiology
CO 2	Will write research proposals, thesis, reports and manuscript

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Unit 1 to 5, Microbiology
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DEPARTMENT OF NUTRITION AND DIETETICS

2024-2025

Programme: MSc Nutrition and Dietetics



Programme-Specific Outcomes For MSC Nutrition And Dietetics

S.NO	Students completing M.Sc. Nutrition and Dietetics will be able to
PSO1	Understand the Diet through Human life cycle, Recommended Dietary Allowance for different age groups
PSO2	Understand the standardization and portion sizes
PSO3	Understand the biological processes and the systems as applicable to human Nutrition
PSO4	Understand the the principles of biochemistry and also pathways of major Nutrients
PSO5	Understand the principles of diet therapy, modification of normal and therapeutic purposes
PSO6	Gain knowledge regarding classification of food, method, media of cooking, nutritive value and processing storage of foods
PSO7	To explain key research concepts and issues, read, comprehend and explain collection analysis and reporting
PSO8	Gain knowledge about etiology, risk, factors clinical features and dietary management.

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Course Outcomes (CO's): M.Sc. Nutrition and Dietetics

2024-2025

Semester I

Human Nutrition Nutritional

Biochemistry -I

Human Physiology



Principles of Dietetics

S.NO	Students will be able to
CO1	To impart in-depth knowledge regarding prevalence, etiology, diagnosis, diet and lifestyle management in different diseases
CO2	To gain knowledge on methods of assessment of nutritional status among individuals and interaction of drugs and nutrients
CO3	To know the classification, functions and metabolic of carbohydrates, amino acids, proteins and nucleic acids
CO4	To enable students to understand the functions of various systems in the body
CO5	To impart in depth knowledge regarding prevalence, etiology, diagnosis, diet and lifestyle management in different diseases

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Semester II

Principles of Food

Nutritional Biochemistry -II

Research Methodology



Diet In Disease

S.No	Students will be able to
CO1	To provide an understanding of composition of various foodstuff
CO2	To know the classification, functions and metabolism of lipids, vitamins and minerals
CO3	To impart in-depth knowledge on collection compilation and analysis of data
CO4	To impart in depth knowledge regarding prevalence etiology, diagnosis, diet and lifestyle management in acute and chronic disease
CO5	To gain knowledge to recommend and provide appropriate nutritional care for prevention and treatment of various diseases

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Semester III

Community Nutrition


Food Product Development

Maternal and child Nutrition



Food Service Management

S.NO	Students will be able to
CO1	To understand the causes determinants and consequences of nutritional problems in the community
CO2	To familiarise students with various approaches to Nutrition and health intervention programs and policies
CO3	Students will be able to compare various physical and chemical methods used in the control microorganisms
CO4	Students will be able to apply management theories and development programs of food services
CO5	Students will be able to understand strategies for maternal and child care




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Semester IV

Advanced Nutrition


Diet Counseling and psychology Skills

Food Microbiology and Food Safety

S.NO	Students will be able to
CO1	Students will be able to well versed with terms and terminology of advanced nutrition. Complete knowledge on bioavailability of nutrients
CO2	Students will be able to ascertain the microbial load and microbial assay
CO3	Students will be to understand the role of dietitian, provide empathetic counselling sessions
CO4	Students will be able to apply ethical decision making, complex clinical and community related nutritional problems
CO5	Students will be developing and demonstrating a commitment to evidence based and intervention procedures

Course: Project

S.NO	Students will be able to
CO1	Demonstrate knowledge of nutrition principles and their application to disease prevention and management.
CO2	Interpret and translate scientific knowledge and principles related to nutrition into practical information.


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