



Anwarul Uloom College (Autonomous)

(Affiliated to Osmania University)

Accredited with A⁺ Grade by NAAC

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



Department of English

Programme Outcomes (PO)

for M.A English and B.com, B .sc, B .B.A and B.A

2023 – 2024

S.No	Aspects	Program Outcomes
PO 1	Knowledge	Equipping students with a solid foundation in English Language and Literature and critical thinking and communication skills that are valuable in various professional and academic pursuits.
PO 2	Problem Analysis	This process helps students deepen their 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 on environmental and sustainability issues, students often develop a heightened awareness of the interconnectedness between human activities and the environment.
PO 4	Ethics and Communication	Students typically comprehensively understand ethical principles and their application in various communication contexts.
PO 5	Individuality and Teamwork	Embracing individuality in a degree program can lead to unique research ideas, innovative solutions, and personal growth. At the same time, teamwork is essential for degree students to effectively collaborate with peers, communicate ideas, and achieve common academic goals.
PO 6	Competencies for Employment and Research	Employers look for 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.
PO 7	Cultural and global Engagements	cultural and global engagements empower 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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Head

Department of English
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Department of Computer Science

Programme Outcomes (PO)


2023 – 2024

Bachelor of Sciences (B.Sc Computer Science)

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	Understand the Importance of the Information Technology Industry in the Country.
PO 2	Problem Analysis	To train students in logical thinking and problem-solving skills to solve real-world problems.
PO 3	Sensitive to environmental sustainability issues	Ability to analyze various functional issues affecting the Organizations.
PO 4	Ethics and Communication	Demonstrate effective oral and Written Communication.
PO 5	Individuality and Teamwork	Demonstrate Ability to work in Groups
PO 6	Competencies for Employment and Research	To develop expertise in Database Management and Digital Content management techniques.
PO 7	Cultural and global Engagements	Know Cyber laws in India and understand various approaches to Cyber Security.
PO 8	Community Engagement	Analyze the Global Environment and its Impact on Electronic Businesses.


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Department of Political Science

Programme Outcomes (PO)

2023 – 2024

BA [EPP] & [HPML]

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	Get familiar with the subject's origin, evolution and core value, which can be used in their day-to-day life.
PO 2	Sensitive to environmental sustainability issues	Students will learn their societal roles and responsibilities and can actively participate in the existing political system.
PO 3	Competencies for Employment and Research	The course offers several job-oriented courses that ensure the students have careers as lawyers, collectors, political leaders, teachers, lecturers, etc.
PO 4	Cultural and global Engagements	Students will be exposed to international politics and political issues by studying I.R.
PO 5	Community Engagement	Students will be able to discuss and debate the changing trends of the Indian political system.

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Department of Chemistry

Programme Outcomes (PO)

2023 – 2024

Bachelor of Sciences (B.Sc., BZC) and Master of Sciences (M.Sc.)

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	Students will gain insight into the connections between chemistry and other disciplines.
PO 2	Problem Analysis	Students will develop problem-solving skills related to physical chemistry concepts.
PO 3	Sensitive to environmental sustainability issues	Students will engage in experimental practices that promote sustainability.
PO 4	Ethics and Communication	Students will effectively convey scientific information to diverse audiences.
PO 5	Individuality and Teamwork	Students will collaborate as part of a team to address complex problems.
PO 6	Competencies for Employment and Research	Students will explore new applications of chemical research.
PO 7	Cultural and global Engagements	Students will communicate essential information about chemical safety, environmental concerns, and societal concerns.
PO 8	Community Engagement	Students will understand the significance of chemistry in addressing societal challenges.

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Department of Zoology

Program Outcomes (PO)

2023 – 2024

Bachelor of Sciences (B.Sc., BZC, NZC)

S.No	Aspects	Program Outcomes
PO 1	Knowledge	It typically includes a comprehensive understanding of various biological and zoological concepts, principles, and techniques.
PO 2	Problem Analysis	The zoology program equips students with skills and knowledge essential for problem-solving in academic and practical contexts, such as analytical skills, research skills, scientific inquiry, etc.
PO 3	Sensitive to environmental sustainability issues	It typically aims to produce graduates who are not only knowledgeable about animal biology but also sensitive to environmental sustainability issues like Understanding of Biodiversity and Conservation, skills in ecological research, ethical responsibility, etc.
PO 4	Ethics and Communication	Within the framework of ethics and communication, the program outcomes generally focus on instilling a sense of ethical responsibility and enhancing communication skills.
PO 5	Individuality and Teamwork	Zoology, particularly in the context of individuality and teamwork, often emphasizes developing skills that allow graduates to effectively work independently and as part of a team.
PO 6	Competencies for Employment and Research	It provides Scientific Knowledge and Technical Skills, Analytical and Problem-Solving Skills, Communication Skills, Teamwork and Collaboration, etc.,
PO 7	Cultural and global Engagements	Zoology concerning cultural and global engagements encompass a range of skills and understandings that prepare students to operate in diverse cultural contexts and address global biological and ecological challenges
PO 8	Community Engagement	Community engagement encompasses activities and learning outcomes that connect students with the community, applying their knowledge and skills to real-world situations.

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Department of Zoology
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Mallepally, Hyderabad-500 00



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Department of Economics

Programme Outcomes (PO)

2023 – 2024

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 Electronics



Programme Outcomes (PO)

2023 – 2024

Bachelor of Sciences (B.Sc., MECs)

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	Outcomes of learning activities , creating learning elements in students
PO 2	Problem Analysis	To find out the root causes of a problem not just symptoms.
PO 3	Sensitive to environmental sustainability issues	Students will be able to recognize physical ,chemical and biological components of earth's system
PO 4	Ethics and Communication	Student can identify and analyze an ethical issue in the relevant field.
PO 5	Individuality and Teamwork	Students understand how to practice effective team work.
PO 6	Competencies for Employment and Research	Students will be able to apply skills and knowledge successfully performance.
PO 7	Cultural and global Engagements	Encompasses the awareness of cultural systems , events and creations and apply this to human interaction and expression
PO 8	Community Engagement	It involves respectful dialogue between everyone involve aimed at improving understanding between communities and public bodies.


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Department of HISTORY
Programme Outcomes (PO)
2023 – 2024

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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New Mallepally, Hyderabad.


Head
Dept of History
ANWARUL ULOOM COLLEGE
NEW MALLE PALLY,
HYDERABAD-500015.

Department: **HISTORY**
Programme: **BA**
2023-24

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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Department of Computer Science & Engineering

Programme Outcomes (PO)


2023 – 2024

Bachelor of Sciences (B.Sc.,CSE)

S.No	Aspects	Programme Outcomes
PO 1	Engineering 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	Design/development of solutions	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 Microbiology

Programme Outcomes (PO)

2023 – 2024

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	<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.
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 an 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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Department of Nutrition and Dietetics



Programme Outcomes (PO)

2023 – 2024

Bachelor of Sciences (B.Sc., NZC) and Master of Sciences (NUTRITION AND DIETETICS)

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	Acquire knowledge from facts and figures related to various subjects of its programme.
PO 2	Problem Analysis	Acquire the skills in handling instruments, planning and performing various tests in their respective department laboratories using quality control and following quality assurance.
PO 3	Sensitive to environmental sustainability issues	Uphold the imbibed ethical and moral values in personal, professional and social life for a sustainable environment.
PO 4	Ethics and Communication	Acquire the necessary communication skills to deal with the team and patients.
PO 5	Individuality and Teamwork	Self-manage and function efficiently as a member or a leader in diverse teams in a multicultural society for nation-building.
PO 6	Competencies for Employment and Research	Critically analyze, synthesize and evaluate data, theories and ideas to provide valid suggestions for the betterment of society.
PO 7	Cultural and global Engagements	Self-manage and function efficiently as a member or a leader in diverse teams in a multicultural society for nation-building.
PO 8	Community Engagement	Hone communication skills in effectively presenting curricular ideas, Concepts and scientific principles in various circumstances.


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PROGRAMME OUTCOMES

ARABIC : BA / B.SC / B.COM / BBA & BBM

UP TO COMPLETION OF DEGREE PROGRAMME, THE GRADUATES WILL BE ABLE TO:

1. Build themselves with rich life skills.
2. Secure prospective careers in international bodies, journalism, translation and Administrative services and teaching Arabic.
3. Pursue critical research in methods of Arabic language learning and literature teaching.

GRAMMAR AND TRANSLATION

1. Students will be able to distinguish the Arabic alphabet.
2. Students will understand the basic grammar.
3. Students develop their reading skill.
4. They Enhance the skill of writing of Arabic language.

CLASSICAL PROSE AND MODERN PROSE

1. Students will understand the style of classical prose.
2. Students evaluate the narrative style of the classical and modern prose writing.
3. Students will understand the morals and ethics of Arabic traditional stories.
4. They analyze the different style of writings.
5. Enhance knowledge about the stylistic features of the classical and modern prose.

POETRY

1. Study in depth some eminent pieces of classical poetry in Arabic.
2. Learn critically the most prominent modern poetry in Arabic.
3. Develop skills in attempting comparative analysis of the classical and modern poetry.
4. Distinguish the poems that deal with love, death, sarcasm, encomium and eulogy.

History of Arabic literature

1. Closely observe the customs and cultures of the Arabs.
2. Know the culture in pre-Islamic period.
3. Learn the literature (poetry) in pre-Islamic period.
4. Gain the knowledge of Assahab e mullaqat.

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APPALIED GRAMMAR AND TRANSLATION

1. Students able to identify the nouns.
2. Students able to understand the application of preposition.
3. Students will identify the interrogative words in Arabic.
4. Students are able to differentiate definite & indefinite nouns.
5. Students able to know the types of noun.

COMPOSITIONS / ESSAY WRITING


1. Students gain the knowledge understands and evaluate the types of Arabic Sentences.
2. Students learn the art of writing develop observations skill, imaginative creation
3. Students will improve communicative Skills.
4. They develop felicity of expression in today's context.


PROSE

1. Students understand the style of classical prose.
2. Students Analyze the different styles of writings.
3. Students will study the Arabic vocabulary, Sentence structures and the diction.
4. Students understand and assimilate the crux of the hadeeth.


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Department of Urdu UG 2023 – 2024

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	طلبا کو تمام یو نٹس میں نثر و نظم سے متعلق سمجھا یا گیا۔ طلبا نے یہ بھی جانا کہ کس طرح دکن میں نظم و نثر کی ابتداء ہوئی۔ بہمنی سلطنت کے دور میں اردو کے ارتقاء کے ابتدائی نقوش ملتے ہیں۔ بہمنی دور کے بعد قطب شاہی، عادل شاہی، برید شاہی، نظام شاہی اور عماد شاہی میں سلطنتوں کا قیام ہوا۔ طلبا نے یہ بھی جانا کہ دکن میں عادل شاہی اور قطب شاہی سلاطین نے اردو کی ترقی و ترویج کے لئے نہ صرف شعرو شاعری کو پسند کیا بلکہ کئی سلاطین خود شاعر بھی تھے۔ انہوں نے شاعری کی پیروی بھی کی
PO 2	Problem Analysis	گریجویٹ ہی اے پروگرام میں طلبا کو قدیم شاعری کی ابتداء و ارتقا کے بارے میں سمجھنے کی کامیاب مساعی کی گئی۔
PO 3	Sensitive to environmental sustainability issues	اس پروگرام کی مدد سے ہی اے (ایچ پی ایم ایل) کے طلبا کو عادل شاہی اور قطب شاہی سلطنتوں کے قیام کی وجہ کے ساتھ ساتھ دکن میں ان کی مضبوط حکومت کو سمجھا یا گیا۔ طلبا نے یہ جانا کہ کس طرح قلی قطب شاہ کے دور میں حیدر آباد کے قیام کے علاوہ دیگر تاریخی عمارتوں کا قیام عمل میں لایا گیا۔
PO 4	Ethics and Communication	طلبا کو "خاکہ" کی تعریف اور اس کی خصوصیت کے بارے میں سمجھا یا جائیگا۔ خاکہ نگار سلیما اریب کی حالات زندگی کو طلبا پڑھیں گے۔ اور خاکہ "سلیمان اریب" کا جائزہ لیں گے۔ طلبا مرزا اسد اللہ خان غالب کی حیات زندگی کا مطالعہ کریں گے۔ طلبا شاعر لدھیانوی کے حالات زندگی اور ان کی شاعری کا جائزہ لیں گے۔
PO 5	Individuality and Teamwork	ہی اے کے اس سمسٹر کو مکمل کرنے کے لئے تین فیکلٹی نے اپنا کردار ادا کیا ہے۔ اور پوری ایمانداری اور محنت سے ہر موضوع پر تفصیلات پیش کی گئی ہیں۔
PO 6	Competencies for Employment and Research	نصاب میں شامل مضامین کے ذریعہ طلبا کو تاریخ اور اس کے بعد کے حالات کو جاننے میں مدد ملی ہے۔ اس نصاب سے طلبا کو نیٹ اور سیٹ کے علاوہ (ایم اے اردو) بی ایڈ انٹر نس امتحانات کو کامیاب کرنے میں بھی مدد ملے گی۔ اس نصاب سے انہیں روزگار بھی وصول ہو گا۔
PO 7	Cultural and global Engagements	طلبا دبستان لکھنؤ کے شعراء کی حالات زندگی اور ان کی شاعری کو سمجھیں گے۔ طلبا کو شاعر اسد اللہ خان غالب اور مومن کی شاعری و ان شعراء کی حالات زندگی سمجھانی 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۔ طلبا کو اردو اخبار "اودھ پنچ" کی ادبی خدمات کے بارے میں واقف کر وایا جائیگا۔
PO 8	Community Engagement	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

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Department of Business Administration

2023 - 2024

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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Department of Mathematics

Programme Outcomes (PO)

2023 - 2024

Bachelor of Sciences (B.Sc. MPC, MPC's, MECs) and Master of Sciences (M.Sc.)

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	Apply the knowledge of mathematics, science, and electronic hardware to provide solutions for all kinds of problems in the respective domain.
PO 2	Problem Analysis	Identify and analyze complex and real-world problems based on the knowledge.
PO 3	Sensitive to environmental sustainability issues	Design an innovative interface method to bring complete solutions using statistical methods and visualize the results for decision-making.
PO 4	Ethics and Communication	Understand the societal and ethical responsibilities of professionals.
PO 5	Individuality and Teamwork	Communicate effectively with a wide audience using range of modalities, including written, oral, and graphical presentations.
PO 6	Competencies for Employment and Research	Develop the ability to design experiments and investigate complex problems based on the knowledge acquire by various research methods to come up with valid conclusion
PO 7	Cultural and global Engagements	Apply scientific knowledge and provide innovative ideas to shape our society.
PO 8	Community Engagement	Acquire skill-based knowledge and ability for lifelong learning.

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Dr. Asma-Kauser

Head

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Department of Botany

Programme Outcomes (PO)

2023 – 2024

Bachelor of Sciences (B.Sc., BZC) and Master of Sciences (M.Sc.)

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	Understanding the classification and diversity of plants, including major groups such as algae, fungi, mosses, ferns, gymnosperms, and angiosperms. This includes knowledge of their evolutionary relationships and ecological roles.
PO 2	Problem Analysis	Students learn to recognize and identify various challenges that affect plants, including diseases caused by pathogens (e.g., fungi, bacteria, viruses), pests (e.g., insects, mites), and abiotic stresses (e.g., drought, pollution).
PO 3	Sensitive to environmental sustainability issues	Ability to propose and justify effective and sustainable solutions to mitigate plant diseases, manage pests, improve soil quality, optimize water use, and enhance overall plant health and productivity.
PO 4	Ethics and Communication	Understanding and applying ethical principles and guidelines in botanical research, including issues related to conservation, biodiversity, intellectual property rights, and the ethical use of plant resources, especially in indigenous and local communities.
PO 5	Individuality and Teamwork	Ability to plan and conduct botanical research independently, including fieldwork, data collection, experimentation, and analysis. This involves demonstrating initiative, problem-solving skills, and the ability to manage tasks effectively.
PO 6	Competencies for Employment and Research	It prepares students for various career paths in botanical sciences, including roles in research institutions, government agencies, non-governmental organizations (NGOs), biotechnology companies, environmental consulting firms, and academia.
PO 7	Cultural and global Engagements	It prepares students to become global citizens and advocates for plant biodiversity conservation and sustainable use, integrating cultural perspectives into their professional practices and fostering international collaboration in botanical sciences.
PO 8	Community Engagement	Students actively contribute to community well-being through their botanical knowledge and skills, fostering a sense of environmental responsibility and stewardship among diverse community members.

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Department Of Biotechnology

B.Sc. (BT.MC) 2023-2024

Programme Outcomes

S.NO.	ASPECTS	PROGRAMME OUTCOMES
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 tasks into a structured form for problem-solving by applying basic science knowledge.
PO3.	Effective communication	To develop the ability to communicate scientific information in a written and oral format effectively.
PO4.	Individual and teamwork	Function effectively as an individual, member, or leader in diverse teams and multi-disciplinary settings.
PO5	Ethics	Apply ethical, moral and social values in personal and professional life, leading to the individual's holistic development.
PO6.	Environment and Sustainability	Develop an interdisciplinary approach to provide better solutions 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.

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Department Of Biotechnology

2023 - 2024

Programme-Specific Outcomes for M.Sc. Biotechnology

S. No	Students completing M.Sc. Biotechnology will be able to
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 a 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, nanotechnology, and Immunology.
PSO 8	Explores the life forms at cellular, molecular, and nano levels. Understands amazing properties of the 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 the development and preparation of Study material for visually challenged

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Department of Commerce

2023 - 2024

Programme

Programme-Specific Outcomes for M.Com

S. No	Students completing M.Com will be able to
PSO 1	Develop and apply knowledge in Financial Management, Management Accounting and Tax Planning.
PSO 2	Develop decision-making skills through costing methods and practical application of management accounting Principles.
PSO 3	Enhance computer skills and their applicability in business through the latest version of E-Commerce principles.
PSO 4	Work in a team with enhanced interpersonal skills and communication.
PSO 5	Able to work in different domains: Accounting, Taxation, HRM, Banking and Administration

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Department of Commerce

2023 – 2024

Bachelor of Commerce (B.Com) and Master of Commerce (M.Com)

Programme Outcomes (PO)

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	After completing a degree in commerce, students can develop and apply knowledge in Financial Management, Management Accounting and Tax Planning.
PO 2	Problem Analysis	Train students to develop conceptual, applied, and research skills and competencies required for effective problem-solving and decision-making in routine and specific activities relevant to financial management and business transactions.
PO 3	Sensitive to environmental sustainability issues	Students will be well acquainted with conventional and contemporary areas of commerce.
PO 4	Ethics and Communication	To facilitate students in conducting business, accounting practices, and the role of regulatory bodies in the corporate and financial sector
PO 5	Individuality and Teamwork	To provide systematic and rigorous learning and exposure to Accounting and Finance related disciplines
PO 6	Competencies for Employment and Research	Provide in-depth understanding of core areas, specifically Managerial Accounting Cost Accounting Research Methodology.
PO 7	Cultural and global Engagements	Students will be well-versed in national and international trends.

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Department of Chemistry

2023 - 2024

Programme:

Programme-Specific Outcomes for M.Sc. Organic Chemistry

S. No	Students completing M.Sc. ^{Organic Chemistry} degree will be able to
PSO 1	The students will develop understanding of interdisciplinary branches of chemistry.
PSO 2	The students will be able to solve the problems based on physical chemistry concepts.
PSO 3	The students will be able to carry out experiments in Green chemistry.
PSO 4	Students will be able to clearly communicate the results of to both scientists and the public at large.
PSO 5	Students will be able to function as a member of an interdisciplinary problem solving team.
PSO 6	The students will be able to innovate new application of chemical research. The students will have an option to join Indian Civil Services, IAS, IPS, etc.
PSO 7	Students will be able to explain why chemistry is an integral activity for addressing social, economic, and environmental problems.
PSO 8	Students will be able to communicate safe handling of chemicals, environmental issues and key issues facing our society in energy, health and medicine.

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Department of Mathematics

2023 - 2024

Programme: M.Sc. Applied mathematics

Programme 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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Department of Mathematics

2023 - 2024

Programme: M.Sc. Applied mathematics

Programme 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.
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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.

Course Outcomes (CO's): M.Sc. Applied Mathematics

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Department of Nutrition and Dietetics

2023 - 2024

Programme-Specific Outcomes for Nutrition and Dietetics

S. No	Students completing M.Sc.Nutrition and Dietetics will be able to
PSO 1	Understand the diet through the Human life cycle and recommend Dietary Allowance for different age groups.
PSO 2	Understand the standardization and portion sizes
PSO 3	Understand the biological processes and the systems as applicable to human nutrition.
PSO 4	Understand the principles of biochemistry and the pathways of major nutrients.
PSO 5	Understand the principles of diet therapy and modification of regular and therapeutic purposes.
PSO 6	Gain knowledge regarding food classification, methods, cooking media, nutritive value, and food storage processing.
PSO 7	To explain key research concepts and issues, read, comprehend and explain collection analysis and reporting
PSO 8	Gain knowledge about etiology, risk factors, clinical features and dietary management.

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Department of Microbiology


2023 - 2024


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.
PSO 2	Acquire detail knowledge of virology, structure and replication of viruses, cultivation and detection methods.
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.
PSO 4	Study Microbial Biochemistry, structure and function of biomolecules and their importance in microorganisms including their mechanism of action.
PSO 5	Learn genomics, gene technology, application of recombinant technology, techniques in molecular biology, medical bacteriology and diagnostic applications.
PSO 6	Study the relationship between microorganisms and soil, plants, and animals and their benefits to the environment.
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.


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Department of English



2023 - 2024

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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Department of

2023 - 2024

Programme:

Programme-Specific Outcomes for M.Sc. Botany

S. No	Students completing M.Sc. botany will be able to
PSO 1	Demonstrate in-depth knowledge of plant anatomy, physiology, genetics, taxonomy, and ecology.
PSO 2	Integrate molecular biology, biotechnology, and bioinformatics principles in understanding plant systems.
PSO 3	Understand and promote the importance of plant biodiversity and conservation.
PSO 4	Assess the environmental impact of human activities on plant ecosystems and propose mitigation strategies.
PSO 5	Integrate knowledge from related disciplines such as microbiology, chemistry, and environmental science to enhance botanical research and applications.
PSO 6	Prepare for professional careers in academia, research institutions, industry, and governmental agencies.
PSO 7	Foster innovative thinking and creativity in solving botanical and ecological problems.
PSO 8	Develop entrepreneurial skills for initiating and managing botanical ventures and start-ups.

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Department of Botany

2023 - 2024

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 learn about the microorganisms that are beneficial and threatening to humans and the diseases such microorganisms can cause.
PSO 2	Taxonomy's key objectives are identifying, characterizing, classifying, and naming all living things according to their traits.
PSO 3	A student can conceptually connect organismal structure and function by studying plant anatomy.
PSO 4	The student completing the course can perform short research projects using various tools and techniques in plant sciences and develop a scientific temperament and research attitude.
PSO 5	With a focus on plants, students can recognize the main evolutionary groups of species and classify them within them. Students will be able to compare and contrast the traits that set plants, algae, and fungi apart from other types of life.
PSO 6	Students achieve the ability to synthesize, separate, estimate and characterize compounds using experimental and instrumentation techniques.
PSO 7	Students understand environmental conservation processes and their importance, as well as pollution control, biodiversity, and protection of endangered species.
PSO 8	Students also Develop critical thinking and problem-solving skills through solving by adopting research-based pedagogical tools.

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Department of Microbiology


2023 - 2024

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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Department of Nutrition and Dietetics

2023 - 2024

Program: BSc Nutrition and Dietetics

Programme-Specific Outcomes for B.Sc. Nutrition and Dietetics

S. No	Students completing B.Sc. Nutrition and Dietetics will be able to
PSO 1	Develop knowledge and skilled professionals to perform food and nutrition analysis using various analytical tools at multi-centric facilities in India and Abroad.
PSO 2	Inculcate a problem-solving mindset of the students through healthcare and industrial exposure to real-world problems.
PSO 3	Helps to transpire as a Diet counselor and nutrition/Health communicator to create awareness in society through various communication strategies in Nutrition Education, emphasizing information technology.
PSO 4	Provide culturally sound methods of education.
PSO 5	Apply the knowledge of processing, preservation, and bakery techniques in designing and enhancing the shelf life of new and existing products.
PSO 6	Strengthens the Competent Graduates as successful Entrepreneurs and energizes Professionals to take up.
PSO 7	Careers in academics, Health Care Centres, and Food Processing Industries.
PSO 8	Professional Ethics: Hold up and commit to professional ethics and ethical regulations, responsibilities, and professional nutrition and dietetics practice norms.


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Department of Business Administration

2023 - 2024

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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Department of Business Administration
2023 - 2024

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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Department Of Biotechnology

B.Sc. (BT.MC) 2023-2024

Programme Specific Outcome (General)

PSO -1	Students are empowered with knowledge of disciplinary and interdisciplinary aspects of Biotechnology.
PSO - 2	Develops critical thinking skills and can apply appropriate tools and techniques in biotechnological manipulation.
PSO - 3	Develops an ability to justify social, health, safety, and legal issues and understand the responsibility towards ethical practices in biotechnology
PSO - 4	Acquire laboratory skills necessary for biotechnology research and gain practical and theoretical knowledge in biological chemistry and the structure and functions of carbohydrates, proteins, and lipids.
PSO - 5	Acquires knowledge of fundamentals of Microbiology, basic concepts of Prokaryotes, Eukaryotes and different branches of Microbiology.
PSO - 6	Gains an insight into various aspects of Immunology and virology and realizes the principles of prevention and treatment of microbial diseases
PSO - 7	Acquire a methodical and logical understanding of the fundamental concepts in Physical, Organic, Inorganic, Analytical and all other integrated Chemistry subjects
PSO - 8	Achieve the ability to synthesize, separate, estimate and characterize compounds using experimental and instrumentation techniques
PSO - 9	Develop critical thinking and problem-solving skills through solving by adopting research-based pedagogical tools.
PSO - 10	Students can effectively translate the metabolic processes in biological research.

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Department of Commerce

2023 - 2024

Programme:

Programme-Specific Outcomes for the Department of Commerce

S. No	Students completing B. Com. (Computer Applications) will be able to
PSO 1	To train the students in the application of computers in various Business operations
PSO 2	Become ethically and socially responsible commerce graduates with computer application knowledge.
PSO 3	Able to take up challenging career options in the Commerce and IT sector.
PSO 4	Motivated to pursue higher education.
PSO 5	Able to take up challenging career options in future.

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Department of Physics


2023 - 2024

Programme:

Programme-Specific Outcomes for B.Sc. Physics

S. No	Students completing B.Sc. Physics will be able to
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	Understand theories, concepts and significance of physics and its relevance in present day Technology.
PSO 6	Understand various types of crystal structures and symmetries and understand the relationship between the real and reciprocal space and learn the Bragg's X - ray diffraction in crystals.
PSO 7	Graduate will acquire necessary skills to enable them to crack competitive examination for career progression or seeking employment.
PSO 8	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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Department Of Political Science

BA [EPP] & [HPML] 2023-2024

Programme Specific Outcome (General)

PSO -1	Serve as a Politician
PSO - 2	Make students go for higher studies and take up research.
PSO - 3	Serves as a political party member, political adviser and a good citizen of India.
PSO - 4	Students work in elections and political and administrative systems.
PSO - 5	This is the most appropriate combination for the public service examination.

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Department of Chemistry



2023 - 2024

Programme: B.Sc. Chemistry

Programme-Specific Outcomes for B.Sc. Chemistry

S. No	Students completing B.Sc. Chemistry will be able to
PSO 1	Explain the vital role of chemistry in addressing pressing social, economic, and environmental issues.
PSO 2	Communicate best practices for safe chemical handling, environmental stewardship, and key societal concerns in energy, health, and medicine.
PSO 3	Develop critical thinking skills to tackle complex chemical problems and develop innovative solutions.
PSO 4	Apply chemical knowledge to real-world problems, demonstrating practical understanding and skills.
PSO 5	Demonstrate expertise in laboratory techniques, instrumentation, and data analysis.
PSO 6	Develop strong communication and teamwork skills, essential for success in interdisciplinary collaborations.
PSO 7	Pursue advanced studies or research in chemistry, driving innovation and discovery.
PSO 8	Apply chemical principles to emerging fields like nanotechnology, materials science, and biotechnology.


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Department of Computer Science

2023 - 2024

Programme: B.Sc. (Computer Science)

Programme-Specific Outcomes for B.Sc. Computr Science

S. No	Students completing B.Sc. Computer Science will be able to
PSO 1	To develop competencies and skills needed for becoming an effective Computer Programmer.
PSO 2	Ability to analyze various functional issues affecting the Organizations.
PSO 3	Analysis and Interpretation of the data which is used in Decision Making.
PSO 4	Exploring different approaches in computer programming and problem solving skills.
PSO 5	To enable students to manage Software Projects from its Conceptual Stage to the final product creation.
PSO 6	To train students in logical thinking and problem solving skills so as to solve real world problems.
PSO 7	To develop expertise in Database Management and Digital Content management techniques.
PSO 8	Awareness of Computer Viruses and Hackers. Know Cyber laws in India and understand various approaches of Cyber Security.

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Department of English

2023 - 2024

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 students with analytical skills in linguistics, communications and literary criticism.
PSO 3	Train students for careers and advanced studies in various 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 Zoology

2023 - 2024

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	Explain the origin of life with context to the origin of eukaryotic cells and endosymbiotic theory of origin., fossil records, Darwinism, and Neo-Darwinism, experimental evidences.
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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Department of Economics

2023 - 2024

Programme: B.A EPP

Programme-Specific Outcomes for Economics

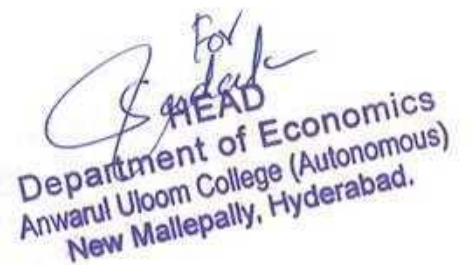
S. No	Students completing B. A in economics will be able to
PSO 1	The basic concept of Economics is how markets organize core economic activities such as production, distribution, consumption and growth of productive resources.
PSO 2	The determinants of Macro Economic conditions (national output, employment 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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Department of Electronics

2023 - 2024

Programme:

Programme-Specific Outcomes for B.Sc. Electronics

S. No	Students completing B.Sc. Electronics will be able to
PSO 1	This Course Forms the basis of Science and Comprises Maths and Physics.
PSO 2	It is more beneficial for society as scientific development make nation to grow
PSO 3	After completion of this course students can go for higer studies i.e MSc
PSO 4	After higher studies students can work as a scientist
PSO 5	This course offers opportunities for serving in Indian army airforce
PSO 6	Students after this course can join civil services
PSO 7	Students can establish their own industrial unit
PSO 8	Science Graduates also recruited by Banks.

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Department of Public Administration

2023 - 2024

Programme: BA [EPP]

Programme-Specific Outcomes for BA [EPP]

S. No	Students will be able to
PSO 1	Serve as a politician.
PSO 2	Work as a teacher in colleges, schools, and high schools.
PSO 3	Serve as a political party member, political adviser and a good citizen of India.
PSO 4	Work in elections and political as well as administrative systems.
PSO 5	Can serve in various departments like forest and archaeological departments as a conservator.


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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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DEPARTMENT OF PROGRAMME SPECIFIC OUTCOMES FOR B. A. PSYCHOLOGY 2023-2024

Students completing B. A. psychology will be able to

Demonstrate familiarity with the major concepts.

Understand and apply basic research methods in psychology.

Respect and use critical and creative thinking approach to solve problems.

Understand and apply psychological principles to personal, social, and organizational

Weigh evidence, tolerate ambiguity and reflect other values.

Demonstrate information competence and the ability to use computers and other tec

Able to communicate effectively in a variety of formats.

Recognize, understand, and respect the complexity of sociocultural and international

Pursue careers in both arts and scientific fields,

M. Maheshwari
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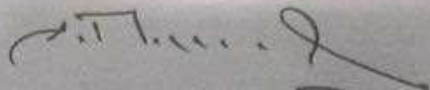


Department of

2023 - 2024

Programme-Specific Outcomes for HPML Urdu

S. No	Students completing B.Sc. botany will be able to
PSO 1	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۔
PSO 2	نثر و نظم II یونٹ طلبا اس یونٹ میں سراج اور نگ 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۔
PSO 3	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 "سازد تمکنت" کے حالات زندگی کا مطالعہ کریں گے اور نظم "اب کے برس" کا مطالعہ کریں گے۔
PSO 4	حصہ نثر و نظم IV یونٹ طلبا الطاف حسین حالی کی دو غزلوں کا جائزہ لیں گے۔
PSO 5	طلبا کو اس یونٹ میں شامل الطاف حسین حالی کی دو غزلوں کی تشریح سمجھانی جائیگی۔
PSO 6	طلبا شاعر حافظ جا لندھری کے حالات زندگی کو پڑھیں گے۔
PSO 7	افسانہ کی ابتداء و ارتقا کے بارے میں سمجھا یا گیا۔
PSO 8	طلبا کو اردو ڈرامہ کی تعریف اور تاریخ واقف کر وایا جائیگا۔


Chairman & Head
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Department of Business Administration

2023 - 2024

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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New Mallepally, Hyderabad.

Department of Business Administration
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Department of Mathematics

2023 – 2024

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 the fundamental axioms in mathematics and the capability to develop 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	A strong foundation in Abstract Algebra, Real Analysis and Complex Analysis.
PSO 7	A good understanding of number theory can be used in modern online cryptographic technologies.
PSO 8	Nurture problem-solving skills, thinking, and creativity through assignments and project work.

HOD

Dr. Asma Kousel

Head

Department of Mathematics
Anwarul Uloom College
New Mallepally, Hyderabad.

COORDINATOR

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Department of Telugu 2023-24 Departmental

Programme Objectives and Outcomes.

(సాధారణ ఉద్దేశ్యాలు మరియు సాధించినవి)

Degree 3rd year (డీగ్రీ మూడవ సంవత్సరం)

Programme Objectives

(సాధారణ ఆదేశం ఉద్దేశ్యాలు)

- కవితా ప్రక్రియల ఆధారం పద్యం, పాట, నవనకవితా, లఘు కవితారూపాలు, ధ్రువాకవితారూపాలు, సాహిత్యప్రక్రియాల ఆధారంగా నాటకం, నవల, కథానిక, డీవెలె యెన్సానల అనే సాధారణ ఆధారంగా నాటి కవితా ప్రక్రియ గురించి, సాహిత్య ప్రక్రియ గురించి తెలుసుకుంటారు.
- తెలుగు వ్యాసంలో, వ్యాసం, వ్యాసపరిణామం, వ్యాస రచనా పద్ధతులు, వ్యాసంలో విష్ణువైద్యం, వ్యాసరచనలో భాషా ప్రయోగాలు ఖర్చులిఖంలో మౌలికంగా వాగ్ద, వాగ్ద నిర్మాణం, వాగ్ద కథనాలు, ఇంటర్వ్యూ, అనువాదం, ఆధునిక సాహిత్యంలో వ్యాసం ముఖ్యమైన లు, ఖర్చులిఖంలో వాగ్దంగా గురించి తెలుసుకుంటారు.
- పదన సాహిత్యంలో అధ్యయన సంస్కృతి, సాహిత్య అధ్యయనం ప్రయోజనాలు, ముందుమాట, పుస్తక సమీక్ష, జానపదం ప్రోత్సహించడంలో, ప్రోత్సహించడంలో, అధ్యయనం పరికల్పన, నివేదిక, ఆధారంగా విద్యార్థులు, అధ్యయనం ఏలా చేయాలి అనే అంశం గురించి తెలుసుకుంటారు

Out comes. (సాధించిన ఫలితాలు)

- పద్యం అనే పదాన్ని రచించిన కవులు నన్నయ, శ్రీ శైలాశంకర, చిలకమర్తి, నారాధన తెలంగాణ కవులు రచయిత శ్రీమలను మరియు తెలంగాణ భాషా నిర్మాణాన్ని తెలుసుకుంటారు నాటకం, నవల యొక్క విశేషాలను గురించి తెలుసుకుంటారు .
- తెలుగు వ్యాసంలో వ్యాసం ఏలా రాయాలి వ్యాస నిర్మాణంలో తెలుగు భాషయొక్క గొప్పతనం, అందులో మెళుకువలు నేర్చుకుంటారు కృత్రిక ప్రవేశ పట్టిన సాధారణ ఖర్చులిఖం లో విద్యార్థులు సమస్యపట్ల

వాగ్దాసంధికిం ద్వారా ప్రజలకు ఏలా చేరవలీ అనే అంశాన్ని తెలుసుకుంటారు అలాగే ఇంటర్వ్యూ ద్వారా అన్వేషించుటలు నేర్చు కుంటారు

2. ఆధునిక కవితల్లో కాలోజ ప్రవేశపట్టిన మనపి యొక్క డీవెలె విశేషాలను అర్థం చేసుకుంటారు. దాశిరం రంగాదార్య రచించిన డీగ్రీలో స్వారంధ్యం పదన రోజుల అనుభూతులను అవగాహన చేసుకుంటారు. అంటటిగారి మచాబారతి చిలువలు గురించి తెలుసుకుంటారు.

3. పదన విలాసం దశవదం వలన పదన ప్రక్రియలైన కథానిక శిల్పనిర్మాణాన్ని గురించి, పరిణామకవితాన్ని కథానికలో అండి మెళుకువలను వ్యాసం రాసే విధానాన్ని తెలుసుకుంటారు. తెలంగాణకు చెందిన కవి రచయితల గురించి తెలుసుకుంటారు.

4. భాషా యొక్క నిర్మాణాన్ని తెలుసుకోవాలంటే భాషా పరిష్కారము పరగాలంటే ఏ భాషకైనా వ్యాకరణం తెలిసే ఉండాలి. పద్యాలకణాలు పద్యంకూర్పు, పద్యాల అలంకారాలు, పద్యం అందం, పద్యం ఏలా సాదాళి అనే విషయాలు తెలుసుకుంటారు.

5. రచనాసాహిత్యంలో విద్యార్థులు అధ్యయన సంస్కృతి పట్ల భాషా సాహిత్యంలో పాటలు ఒకవిషయాన్ని కుణంగా ఏలా తెలుసుకోవాలి, దానిని ఏలా ప్రతిపాదించాలి మరియు నివేదిక సమర్పించాలి అనే విషయాన్ని తెలుసుకుంటారు. దీనిద్వారా భాషలో భనర్తాన్ని మరియు విద్యార్థులలో ఆలోచించే సామర్థ్యాన్ని పెంచుకుంటారు.

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D. Shyamala

26/9/2024.



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Department of Telugu 2023-24 Departmental

Programme Objectives and Outcomes

(పాఠ్యాంశాల ఉద్దేశ్యాలు మరియు పాఠించినవి)

Degree 2nd year (2nd యియర్ సంవత్సరం)

Programme Objectives

(పాఠ్యాంశాల ఆదారంగా ఉద్దేశ్యాలు)

1. ప్రాచీన పాఠాల్లో భాగంగా నారద గానమార్పిడి, వాగ్దాన బంగం, నరసింహ కథకం అనే పాఠ్యాంశాల ఆదారంగా నటి పాఠాల్లో విలువలు తెలుసుకుంటారు.
2. ఆధునిక కవిత్వంలో నడుదనను, వరుదనను, ఆర్థికం, దీపికాంధుర్లం, ధిరుప్రకాశం, గురుదక్షిణ, గుడిసలు కాలివోరుస్తే పాఠ్యాంశాల ఆదారంగా ఆధునిక కవిత్వ చోకడలను మరియు కవుల గుణించి తెలుసుకుంటారు.
3. వచన విగ్రహంలో ఆర్థిక ఆధునికత, ప.ప. భావన పాఠాల్లో వచన మన గ్రామ నామాలు, నిప్పుడు తొలగిన నిప్పు, కంఠముల్లు, ఇది ఒకే కళ పురుగుండుకేవలం అనే పాఠ్యాంశాల ఆదారంగా కథానిక ప్రణయను వ్యాస ప్రణయ గురించి తెలుసుకుంటారు.
4. భాషా భాగాలలో చందస్సు, అలంకారాలు భాగంగా విద్యార్థులు పద్య లక్షణాలు, పద్య అలంకారాల ఉద్దేశంగా ఉన్నది.

Out comes: (పాఠించిన పరిణామ)

1. వచన సూత్రం, అనూరి మరియు వెంకట నరసింహాచార్యులు, దర్శిపురి కవిత్వకాళిత, దీపికాంధుర్లం లాంటి గానం తెలుగు, దా|| ముఖ్యంగా రామాద్వై, దాశరథి రంగాచార్యుల వ్యాఖ్యలతో కలిపి, ఇప్పుడు నరసింహాచార్యులు, వానమామిళ్ల జగన్నాథాచార్యులు, అంటే లక్ష్మీనరసింహాచార్యులు|| బోయిటిమిన్సు ముద్రలను కవుల కవిత్వ శైలిలను మరియు నాటి భాష విద్యార్థులను తెలుసుకుంటారు.

2. ఆధునిక కవిత్వంలో కాళిత ప్రకాశిని మరియు యుక్తి, జీవిత విశేషాలను అర్థం చేసుకుంటారు. దాశరథి రంగాచార్యుల ద్వారా దీక్షింట్లో స్వయంప్రకాశం వచన లక్షణాల అనుభూతులను అధికారం చేసుకుంటారు. అంటే గానం మహాభారత విలువలు గురించి తెలుసుకుంటారు.
3. వచన విగ్రహం చదవడం వలన వచన ప్రణయిల్లిన కథానిక శిల్పనిర్మాణాన్ని గురించి, పరిణామకావ్యాన్ని కథానికలో అందే ముఖ్యములను వ్యాసం లాన విద్యానిచ్చి తెలుసుకుంటారు. తెలుగునాడు చందన కవి రచయితల గురించి తెలుసుకుంటారు.
4. భాషా యుక్తి నిర్మాణాన్ని తెలుసుకోవాలంటే భాషా పరిష్కారము పరిణామం ఏ భాషా వ్యాకరణం తెలిసి అందాలి. పద్యలక్షణాలు పద్యకూర్పు, పద్య అలంకారాలు, పద్యం అందం, పద్యం ఏలా పాఠాలి అనే విషయాలు తెలుసుకుంటారు.

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Department of Telugu.

2023-24 Departmental

Programme Objectives and Outcomes.

(పాఠ్యాంశాల ఉద్దేశ్యాలు మరియు సాధించినవి)

Degree 1st year (డీగ్రీ మొదటి సంవత్సరం)

Programme Objectives

(పాఠ్యాంశాల ఆదారంగా ఉద్దేశ్యాలు)

1. ప్రాచీన సాహిత్యంలో భాగంగా శబ్దంలో పాఠ్యాంశము, గదనూని కవి, సంవత్సరీ తపస్సు, గుణింద్రవ్యాకరము, వాసుమతీ సందేశము, సుభాషితములు అనే పాఠ్యాంశాల ఆదారంగా వాటి సాహిత్య విలువలు తెలుసుకుంటారు.
2. ఆధునిక కవిత్వంలో కాసులు రాజ కవి గంగిరెద్దు జయదీరి ఆంధ్రకావ్యము ప్రపంచ పద్యము అఖిలా పాఠ్యాంశాల ఆదారంగా ఆధునిక కవిత పోకడలను మరియు కవుల గురించి తెలుసుకుంటారు.
3. పదన విభాగంలో యుగాంతము వెంకన్న మాయాదేవండు మా శారు పోయింది అది ఒక కవి పద్య గుర్తుమొకవందం అనే పాఠ్యాంశాల ఆదారంగా కథానిక ప్రక్రియను వ్యాస ప్రక్రియను గురించి తెలుసుకుంటారు.
4. రుద్రమదీవి సవల ఉపవాసంలో చరిత్ర గురించి తెలుగు వారి సంస్కృతి గురించి తెలుసుకుంటారు.
5. భాషాలోకంలో పద్యముపదాలు వాచాత్మ్యాలు భాగంగా సంధులు సమాసాలు తెలుగు వాక్యము గురించి అధ్యయనం చేసి భాషా నిర్మాణాన్ని తెలుసుకోవడం ఇక్కడ ఉద్దేశం గా ఉన్నది.

Out comes. (సాధించిన పరిణామాలు)

1. పద్యము పాఠ్యరీతి పోషించుటకు కోవిది గోపరాజ పోతన చిట్ట పేరును లక్ష్యం కవి మొదలైన కవుల కవిత క్రతులను మరియు వాటి భాషా నిర్మాణాన్ని తెలుసుకుంటారు.
2. ఆధునిక కవిత్వంలో గుణింద్ర ప్రవేశపెట్టిన నూతన సాహిత్య పోకడలను అర్థం చేసుకుంటారు. భాషా విశ్వ మానవి తత్వాన్ని గురించి అవగాహన చేసుకుంటారు. కృష్ణమోదాధ్యులు వారి సాహితీ ప్రస్థానం గురించి, సురవరం ప్రతాపరెడ్డి సాహిత్య సేవ గురించి, వారాయలరెడ్డి మానవత్వం గురించి తెలుసుకుంటారు.
3. పదన విభాగం పదపదం పదన పదన ప్రక్రియలైన కథానిక శిల్ప నిర్మాణాన్ని గురించి, పరిణామకవనాన్ని కథానిక లో ఉండి మలకువలను వ్యాసం రాసి నిర్మాణాన్ని తెలుసుకుంటారు తెలుంగాతకు చెందిన స్త్రీ రచయితుల గురించి తెలుసుకుంటారు.
4. ఉపవాసం రుద్రమదీవి పదపదం పదన తెలుగువారి పొరుషము పాలనా సామర్థ్యం అవగతం అవుతుంది. ప్రజల కోసం ఆనాడు ముఖ్యంగా కాకతీయ ప్రమాలు చేసిన సేవలు ఆవారీ శిల్ప సంపద గురించి తెలుసుకుంటారు.
5. భాష యొక్క నిర్మాణాన్ని తెలుసుకోవాలంటే భాషా పరిష్కారము పరిణామంలో ఏ భాషానికా వ్యాకరణం తెలిసి ఉండాలి పదాల మధ్య కలయికను కేత్ర పదాల నిర్మాణము సంధులు సమాసాలు తాత్పర్య తెలుసుకుంటారు. మరియు పదాలను భారతీయాలను తెలుసుకోవడం చిట్ట భాషా సంపద పరుగుతుంది

D. Shyamali

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Department of Public Administration

Programme Outcomes (PO)

2023 – 2024

BA [EPP]

S.No	Aspects	Programme Outcomes
PO 1	Knowledge	The department focuses on introducing and developing knowledge of institutions, organizations, practices, concepts and theories.
PO 2	Individuality and Teamwork	The programme provides the basis for being a responsible citizen.
PO 3	Competencies for Employment and Research	Improves thinking skills and prepares them to participate competently.
PO 4	Cultural and global Engagements	Allows a better understanding of administrative conditions and trends and the functioning of the government across the globe.
PO 5	Community Engagement	The objective is to provide knowledge related to culture and civilization and the development of social behaviour.


HOD

HEAD

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Department of Physics

Program Outcomes (PO)

2023 – 2024

Bachelor of Sciences (B.Sc., MPC)

S.No	Aspects	Program Outcomes
PO 1	Knowledge	This course forms the basic concepts, principles and applications of the specific science and comprises of the subjects like Mathematics, Physics, Electronics, Chemistry, Biology and Zoology.
PO 2	Problem Analysis	Read, understand and interpret physical information – verbal, mathematical and graphical and solve problems of relevance to society to meet the specified needs using the knowledge, skills and attitudes acquired from sciences/ mathematics.
PO 3	Sensitive to environmental sustainability issues	Understand the issues of environmental contexts and Analyze the impact of scientific and technological advances on the environment and society and the need for sustainable development.
PO 4	Ethics and Communication	Commitment to professional ethics and responsibilities. Develop competence in oral-written and visual communication Understand current technology related to the communication field and electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO 5	Individuality and Teamwork	Exhibit the potential to effectively accomplish tasks independently and as a member or leader in diverse teams, and in multidisciplinary settings.

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PO 6	Competencies for Employment and Research	Demonstrate skills and competencies to conduct scientific experiments related to physics and also offers opportunities for serving in Indian Army, Indian Navy, Indian Air Force as officers.
PO 7	Cultural and global Engagements	Multidisciplinary program enables students to evaluate the role of science, mathematics, technology, and engineering in addressing current issues facing local and global communities.
PO 8	Community Engagement	Program is designed to articulate the relationship between different science communities to practice and to contribute to the development of science and technology that have been made by people with diverse perspectives, cultures and backgrounds.

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

2023 -2024

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 Stellar 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

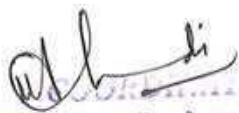
S.No	Students will be able to
CO 1	Students learn the history of embryology and the development of male and female gametophytes in plants, as well as pollination and fertilization.
CO 2	In learning the Tissues and Meristems, students can differentiate between the different tissue systems in plants and 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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Course Title: Numerical Analysis

Course Code: AM 305(B)

S. No	Students will be able to
CO 1	Identity and analysis of different types of errors encountered in numerical computing
CO 2	Apply the knowledge of numerical mathematics to solve problems that arise efficiently in science and engineering.
CO 3	: Utilize the tools of Numerical Mathematics to formulate real-world problems from the viewpoint of numerical mathematics.
CO 4	Design, analyse and implement 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.

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 the 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.


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Course Title: Finite Element method

Course Code: AM 402

S. No	Students will be able to
CO 1	Upon successful completion of this course, students 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 elements.
CO 3	The development of the element characteristic equation procedure and the generation of a 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	Identifying how the finite element method expands beyond the structural domain for problems involving dynamics, heat transfer, and fluid flow is important.

Course Title: Functional Analysis

Course Code: AM 403

S. No	Students will be able to
CO 1	Learning to recognize the fundamental properties of normed linear space and 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 properly use the specific techniques for conjugating operators over the Banach space.
CO 5	To apply the open mapping theorem and closed mapping theorem.

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Course Title: Magneto hydrodynamics

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 characterize 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.

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, and their solution techniques in real-world problems.
CO 3	Introducing the concepts of Queuing models and their solutions.
CO 4	It improves the students' logical thinking ability and helps them access various employment opportunities.
CO 5	Infuses practical knowledge that helps in pursuing higher studies as well as getting employment.

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Course Outcomes (COs): B.Sc. (MPC, MECS, MPCs)

2023 -2024

Semester I

Course Title: Differential and Integral calculus

Course Code: 6114T

S.No	Students will be able to
CO 1	Understand concepts of limit and continuity on \mathbf{R} through ϵ - δ definition.
CO 2	Learn the conceptual variations when advancing in calculus from one variable to multivariable discussions.
CO 3	Sketch curves in a plane using its mathematical properties in the different reference coordinate systems.
CO 4	Learn the applications of the mean value theorem and Taylor's theorem.

Semester II

Course Title: Differential Equations

Course Code: 6214T

S.No	Students will be able to
CO 1	Understand basic concepts of Differential Equations.
CO 2	Solve first-order, nonlinear, and linear differential equations of higher order using various techniques.
CO 3	Formulate, classify, and solve linear and nonlinear partial differential equations using various methods and apply these methods to solve some physical problems.

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Semester III

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Course Title: Real Analysis

Course Code: 6314T

S.No	Students will be able to
CO 1	Understand many properties of the real line and learn to define the sequence of functions from a subset of Natural no's to the Real line.
CO 2	Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and calculate their limit superior, limit inferior, and the limit of a bounded sequence.
CO 3	Apply the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers.
CO 4	The geometrical properties of continuous functions on closed and bounded intervals.
CO 5	Sequence and series of Real valued functions along with power series and radius of convergence.

Semester IV

Course Title: Algebra

Course Code: 6414T

S.No	Students will be able to
CO 1	Recognize the mathematical objects that are groups and classify them as abelian, cyclic, permutation groups, etc;
CO 2	Link the fundamental concepts of Groups and symmetrical figures;
CO 3	Explain the significance of the notion of cosets, normal subgroups, and factor groups.
CO 4	Learn the fundamental concept of Rings, Fields, subrings, integral domains and the corresponding homomorphisms.

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Semester V

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Course Code: 503T

S.No	Students will be able to
CO 1	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, the basis of a vector space and the dimension of a vector space.
CO 3	Basic concepts of linear transformations, the rank-nutrition theorem, matrix of a linear transformation, algebra of transformations, and the change of basis, dual space, and dual basis of vector space.

Semester VI

Course Title: Numerical Analysis

Course Code: 603T

S.No	Students will be able to
CO 1	Some numerical methods are used to find the zeroes of nonlinear functions of a single variable and the solution of a system of linear equations up to a certain level of precision.
CO 2	Interpolation techniques to compute the values for a tabulated function at points not in the table.
CO 3	Applications of numerical differentiation and integration to convert differential equations into difference equations for numerical solutions.

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Course Outcomes (CO's): M.Sc. Applied Mathematics

2023 -2024

Semester I

Course Title: Abstract Algebra

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, and 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 subgroups and prove elementary propositions.
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.

Course Title: Mathematical Analysis

Course Code: AM 102

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

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Course Title: Ordinary and partial differential equations

Course Code: AM 103

S. No	Students will be able to
CO 1	The student can 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.

Course Title: Mechanics

Course Code: AM 104

S. No	Students will be able to
CO 1	To know what central, conservative, and central-conservative forces are, one must mathematically understand the conservative theorems of energy and linear and angular momentum. To know the importance of concepts such as generalized coordinates and constrained motion.
CO 2	To know how to impose constraints on a system to simplify the methods used in solving physics problems in Lagrangian mechanics. To know how to deduce Hamilton's equations from the variational principle.
CO 3	Understand the concepts of canonical transformations, Poisson and Lagrange brackets.
CO 4	Understand the concepts of canonical transformations, Poisson and Lagrange brackets.
CO 5	To distinguish between 'inertia frame of reference' and 'non-inertial frame of reference.'

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Course Title: Integral Transform

Course Code: AM 105

S. No	Students will be able to
CO 1	Familiar with Laplace transforms, their properties and solving equations using the transforms.
CO 2	Familiar with Fourier transforms, their properties and their applications.
CO 3	Able to apply convolution theorem
CO 4	Familiar with Hankel transforms, their properties and solving equations using the transforms.
CO 5	Familiar with Mellin transforms, their properties and solving equations using the transforms.

Semester II

Course Title: Galois Theory

Course Code: AM 201

S. No	Students will be able to
CO 1	Understanding the field extensions and the notion of algebraic and transcendental field extension.
CO 2	The ability to calculate 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	The ability to calculate the Galois group. Fundamental theorem of Galois correspondence. Intermediate Fields.
CO 5	Examples. Solvable groups. Relationship between solvable GPS and polynomials solved by radicals.

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Course Title: Lebesgue measure & integration


Course Code: AM 202

S. No	Students will be able to
CO 1	The student will be able to apply the Riesz theorem and Lebesgues monotone convergence theorem.
CO 2	Describe the Borel sets and Measurable functions.
CO 3	Learn the Lebesgue integral of a function.
CO 4	Understand measure theory and integration from a theoretical point of view and apply its tools in different fields of applications.
CO 5	Extend their knowledge of Lebesgue's integration theory by selecting and applying its tools for further research in this and other related areas.

Course Title: Complex Analysis

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 and consequences of continuity.
CO 2	Apply the concept and consequences of analyticity, the Cauchy-Riemann equations, and 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 such 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.


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Course Title: Fluid Mechanics

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 to measure it.
CO 2	Calculate hydrostatic force and use of the 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.

Course Title: Theory of Ordinary Differential Equations

Course Code: AM 205

S. No	Students will be able to
CO 1	The quantitative properties theory on Differential equations is taught in detail. The existence and uniqueness of a solution for the initial value problem and certain results of solutions depend on the initial conditions and parameters to be learned.
CO 2	The first-order homogeneous and nonhomogeneous equations and their solution space are discussed.
CO 3	Understand and apply the existence theorem.
CO 4	The student will be able to apply the iteration method.
CO 5	The student will be able to understand adjoint linear differential equations.

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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 solve 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.
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, and the mean velocity profile for laminar and turbulent boundary layers over simple geometries.


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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, the 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, dual space, and dual basis of vector space.

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	Conducted and interpreted post-optimal and sensitivity analyses and explained their primal-dual relationships.
CO 4	Develop mathematical skills to analyze and solve integer programming, parametric linear programming and network models from various applications.
CO 5	Find maximum (profit or yield) or minimum (loss or cost) in real-world objectives.

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

2023 -2024

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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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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Course Outcomes (CO's): B.B.A 2023 -2024

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

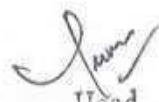
Course Title: Communication Skills

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

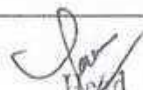
Course Title: Marketing Research

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

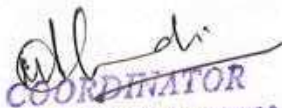
Course Code: SEC-III

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

2023 -2024

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

2023 -2024

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 Intellegence 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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Course Outcomes

2023-2024

B.Sc. Biotechnology

Semester I: Cell Biology and Genetics

CO - 1	To comprehend the Mendelian Genetics principles in humans, plants and animals.
CO - 2	Understand the basic aspects of the intracellular organization of Eukaryotic cells.
CO - 3	Explore the molecular basis of genetics, including the structure and function of DNA, RNA, and proteins, and how these molecules interact to control genetic information flow.
CO - 4	Analyze genetic inheritance patterns and mechanisms, including Mendelian genetics, non-Mendelian inheritance, and the role of genetic variation in evolution and disease.
CO - 5	Develop critical thinking and experimental skills through laboratory exercises, data analysis, and interpretation of experimental results in the context of cell biology and genetics research.

Semester II: Nucleic acid, Biostatistics and Bioinformatics

CO - 1	To understand the Structure of Nucleic acid.
CO - 2	Familiarize with bioinformatics resources, databases, and software tools for storing, retrieving, and analyzing biological data.
CO - 3	Investigate how nucleic acids encode genetic information and participate in cellular processes such as replication, transcription, and translation.
CO - 4	Explore how nucleic acid sequence data can be analyzed using statistical methods and bioinformatics tools to understand genetic variation, evolution, and gene expression.
CO - 5	Apply bioinformatics techniques to study gene regulation, genomic mapping, and comparative genomics.

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Semester III: Biological Chemistry

CO - 1	To understand the carbohydrate classification.
CO - 2	To comprehend the metabolism of lipids, nucleic acids, and amino acids.
CO - 3	explore the chemical principles underlying biological processes such as enzyme catalysis, metabolic pathways, and molecular interactions within cells.
CO - 4	Examine the molecular basis of genetic information flow, including DNA replication, transcription, RNA processing, and translation.
CO - 5	Explore how molecular structure determines biomolecular interactions, enzymatic activities, and cellular signalling pathways.

Semester IV: Microbiology and Immunology

CO - 1	To learn about Viruses, Algae, Fungi, and Protozoa.
CO - 2	To learn about the general characteristics of the Immune System.
CO - 3	Study the structure and function of microbial cells, including cell morphology, metabolism, growth requirements, and mechanisms of genetic variation.
CO - 4	Analyze the mechanisms of microbial pathogenesis, including host recognition, invasion strategies, and immune evasion tactics.
CO - 5	Investigate the components and functions of the immune system, including innate and adaptive immunity, immunological memory, and immune responses to infections.

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Semester V: Plant Biotechnology

CO - 1	Explore the molecular mechanisms underlying plant growth, development, and responses to environmental stimuli.
CO - 2	Gain proficiency in plant tissue culture techniques, including callus induction, regeneration of whole plants from tissue cultures, and micropropagation.
CO - 3	Understand the use of genomic tools and bioinformatics in plant biotechnology, including genome sequencing, transcriptomics, proteomics, and metabolomics.
CO - 4	Investigate biotechnological strategies for enhancing crop yield, quality, and stress tolerance, including genetic modification for pest resistance, herbicide tolerance, and nutrient efficiency.
CO - 5	Study the genetic basis of plant traits, including inheritance patterns, gene regulation, and genetic engineering techniques.

Semester VI: Environmental Biotechnology

CO - 1	Students learn to keep the environment clean, develop environmentally friendly products and improve energy sources.
CO - 2	Examine how biotechnological approaches can be applied to remediate environmental problems and promote sustainable practices.
CO - 3	Study the role of microorganisms in natural ecosystems and their applications in the bioremediation of pollutants.
CO - 4	Investigate biotechnological waste treatment and recycling methods, including composting, anaerobic digestion, and bioconversion of organic waste into valuable products.
CO - 5	Discuss biotechnological strategies for nutrient management, including biofertilizers and microbial-enhanced nutrient uptake by plants.

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Semester VI

Course Title: Cost Control & Management Accounting

Course Code: DSE- 601

Common For All B. Com. Streams

S.No	Students will be able to
CO 1	To provide knowledge about management accounting and marginal costing.
CO 2	Gain knowledge of budgetary control and standard costing.
CO 3	To evaluate techniques of financial statement analysis.
CO 4	To learn about funds flow analysis.
CO 5	To give knowledge about cash flow analysis

Semester VI


Course Title: Theory And Practice of GST

Course Code: DSE-602

Common For All B. Com. Streams

S.No	Students will be able to
CO 1	To provide knowledge about goods service tax.
CO 2	To provide knowledge about getting started with GST.
CO 3	To introduce recording advanced entries, GST adjustments and return file.
CO 4	To provide knowledge about determination of supply of services.
CO 5	To understand recording advanced entries and migration to ERP.


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Semester VI

Course Title: Multi Media Systems

Course Code: DSE-603

For B. Com. (Computers Application) ONLY

S.No	Students will be able to
CO 1	Learning of implementation of digital interfaces.
CO 2	Learning of video presentation and digitalization transmission
CO 3	Learning of Data storage concepts and devices
CO 4	Learning of multimedia communications and synchronization of data.
CO 5	Learning multimedia applications and integrating with other systems.

Semester VI

Course Title: Business Data Analytics

Course Code: DSE-604

For B. Com. (E-Commerce) only

S.No	Students will be able to
CO 1	Understand the impact of data analytics on business decisions and strategy.
CO 2	Different types of Statistical Tools for Data Analytics
CO 3	Data Analytics tools in Ms.Excel
CO 4	Data Analytics tools in Tableau
CO 5	Data Analytics Tools in SQL.

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Semester VI

Course Title: Accounting Standards

Course Code: DSE-604

For B. Com. (General & Honors) Only

S.No	Students will be able to
CO 1	To provide knowledge about accounting standards.
CO 2	Gain knowledge of financial reporting and disclosure standards guiding financial Statements.
CO 3	To learn about financial reporting.
CO 4	To provide knowledge about accounting standards.
CO 5	Gain knowledge of standards for financial reporting.

Semester VI

Course Title: Cross-Cultural Consumer & Industrial Buyer

Course Code: DSE-604

For B. Com. (Foreign Trade) only

S.No	Students will be able to
CO 1	To develop a basic understanding related to the concept of "Consumer Behavior" and "Consumer Buying Behavior."
CO 2	To understand how consumer needs are formed, how they are motivated to buy goods, how consumers perceive marketers' marketing initiatives, how attitudes and beliefs are formed and how they influence consumer buying behaviour.
CO 3	To understand the various social factors responsible for developing consumer tastes and preferences and how family, friends, neighbourhoods, and acquaintances influence consumer buying behaviour.
CO 4	To understand consumer behaviour across various cultures and identify the marketer's strategies for each cultural consumer.
CO 5	To study the issues related to consumer research, i.e., how primary and secondary research is conducted to understand consumer psychology and to study the innovation adoption process of consumers.

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Semester VI

Course Title: International Finance

Course Code: DSE-603

For B. Com. (Honor's) Only

S.No	Students will be able to
CO 1	Be familiar with the differences in operations in international and domestic financial markets.
CO 2	Understand the various ways in which exchange rates have prevailed over the years in international markets.
CO 3	Recognize the operations in the currency market and solve exchange rate determination in spot and forward markets.
CO 4	Able to understand Capital budgeting, discounting and non-discounting methods.
CO 5	Understand how to select sources of funds in international markets.

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Course Outcomes (COs): Department of Commerce

2023 -2024

Semester V

Course Title: Cost Accounting

Course Code: DSE 501

Common For All B. Com. Streams

S.No	Students will be able to
CO 1	Students would explain the objectives and scope of Cost Accounting.
CO 2	To develop direct and indirect material costs.
CO 3	To develop knowledge about labour and overheads.
CO4	Keep them aware of the unit and job costing.
CO 5	Keep them aware of contract and process costing.

Semester V


Course Title: Computerised Accounting

Course Code: DSE 502

Common For All B. Com. Streams

S.No	Students will be able to
CO 1	To provide knowledge about the basics of ERP.
CO 2	To provide knowledge about maintaining stock-keeping units.
CO 3	To provide knowledge recording of day-to-day transactions in ERP.
CO 4	Enable the students to understand accounts receivable and payable management in ERP.
CO 5	Keep them aware of MIS Reports.


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Semester V

Course Title: Management Information System

Course Code: DSE-503

For B. Com. (Computers Application) ONLY

S.No	Students will be able to
CO 1	Students will understand the organizational structure and decision-making process of the organization.
CO 2	Students will be able to design, implement and evaluate a computing-based solution to meet a given set of requirements.
CO 3	Students will have the ability to use tools and techniques for the identification, evaluation and implementation of MIS in the organization using an ERP System (Enterprise Resource Planning)
CO 4	Students will understand the organization's needs and find solutions to complex problems. Ability to use decision support system (DSS).
CO 5	Students will learn the usage of the web and social media and the ability to find weakness in planning and designing a business org.

Semester V


Course Title: Fundamentals Of E-Commerce

Course Code: DSE-503

For B. Com. (E-COMMERCE) ONLY

S.No	Students will be able to
CO 1	Understand the E-Commerce and E-business infrastructure and trends.
CO 2	Analyze different portal technologies and deployment methodologies commonly used in the industry.
CO 3	Analyze the effectiveness of network computing and cloud computing policies in a multi-location organization.
CO 4	Analyze real business cases regarding their e-business strategies and transformation processes and choices.
CO 5	Integrate theoretical frameworks with business strategies.


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Semester V

Course Title: Auditing

Course Code: DSE-503

For B. Com. (GENERAL & HONORS) ONLY

S.No	Students will be able to
CO 1	Understanding the environment and types relating to the auditing function.
CO 2	Ensure that all books of accounts are done reasonably.
CO 3	Identify the steps needed to prepare for an audit.
CO 4	To define the auditor's role and the terms of engagement, usually in the form of a letter that the client duly signs.
CO 5	An auditor audits a company's accounts, and the findings are usually put out in a report or compiled systematically.

Semester V


Course Title: International Tax & Regulations

Course Code: DSE-503

For B. Com. (Tax Procedure) Only

S.No	Students will be able to
CO 1	To understand the objectives of tax treaties.
CO 2	The understanding and application method for applying tax treaties to present, orally and in writing, complicated problems and arguments for objective-oriented solutions.
CO 3	To understand the relationship between tax treaties and (strictly) internal laws.
CO 4	To gain knowledge of the methods for interpretation of tax treaties.
CO 5	To understand the objectives of tax treaties.


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Semester VI

Course Title: Tax Planning & Management

Course Code: DSE-503

For B. Com. (Tax Procedure) Only

S.No	Students will be able to
CO 1	To provide knowledge about tax planning, tax management, tax evasion, and tax avoidance.
CO 2	Gain knowledge of tax planning regarding setting up new businesses and specific management decisions.
CO 3	To learn about tax planning in respect of non-residents.
CO 4	To give knowledge about planning with reference to all five heads of Income for individuals.

Semester V


Course Title: Marketing Management

Course Code: DSE-503

For B. Com. (HONOR'S) ONLY

S.No	Students will be able to
CO 1	Demonstrate strong conceptual knowledge of the function area of marketing management.
CO 2	Demonstrate effective understanding of the marketing environment and international marketing.
CO 3	Understanding analytical skills in market segmentation, targeting and positioning.
CO 4	Understanding the channel of distribution and retailing.
CO 5	Understand the knowledge of digital marketing and marketing information systems.


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Semester V

Course Title: Logistics Management

Course Code: DSE-504

For B. Com. (Foreign Trade) Only

S.No	Students will be able to
CO 1	Describe the increasing significance of logistics and its impact on costs and services in business and commerce.
CO 2	To understand the functions of shipping and different types of containers and ships.
CO 3	To understand the role of Air transport and its problems and prospects.
CO 4	To understand the basics of risks and how to file a claim.
CO 5	To able to design a warehouse and its location strategies

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

2023 -2024

Semester I

Course Title: Mechanics

Course Code: 6118

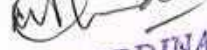
S.No	Students will be able to
CO 1	Evaluate line, surface and volume integrals.
CO 2	Learned conservation laws of energy and linear and angular momentum and apply them to solve problems.
CO 3	Equation of continuity- Euler Equation.
CO 4	Apply Kepler's law to describe the motion of planets and satellite 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.


Semester II

Course Title: Thermal Physics

Course Code: 6218

S.No	Students will be able to
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


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Semester III

Course Title: Electromagnetic Theory

Course Code: 6318

S.No	Students will be able to
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.

Semester IV

Course Title: Waves and Optics

Course Code: 6418

S.No	Students will be able to
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.

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Semester V

Course Title: 6518 A

Course Code: Modern Physics - Elective I

S.No	Students will be able to
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.

Semester VI

Course Title: Electronics - Elective I

Course Code: 6618 A

S.No	Students will be able to
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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Course Outcomes (CO's): B.Sc. Computer Science

2023 -2024

Semester I

Course Title: Programming in C

Course Code: 6110

S.No	Students will be able to
CO 1	Appreciate and understand the working of a digital computer
CO 2	Analyze a given problem and develop an algorithm to solve the problem
CO 3	Improve upon a solution to a problem
CO 4	Use the 'C' language constructs in the right way
CO 5	Design, develop and test programs written in 'C'

Semester II


Course Title: Programming in C++

Course Code: 6210

S.No	Students will be able to
CO 1	Analyze a given problem and develop C++ program to solve the problem
CO 2	Appreciate and understand the working of a classes and objects
CO 3	Improve upon a solution to a problem using object oriented features
CO 4	Use the 'C++' language constructs in the right way to understand object oriented programming features and improve skills in OOP
CO 5	1. Design, develop and test programs written in 'C++' using OOP


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Semester III

Course Title: Data Structures

Course Code: 6310

S.No	Students will be able to
CO 1	To understand the concepts of various data structures and their use in the real world applications
CO 2	Analyze a given problem and develop an algorithm to solve the problem
CO 3	Improve upon a solution to a problem
CO 4	Use various data structures to implement in the software project
CO 5	Use data structures to develop and test data files and databases in a software project

Semester IV

Course Title: Database Management Systems

Course Code: 6410

S.No	Students will be able to
CO 1	To understand Data, Database and Database management system
CO 2	To see inside the various architectures of the dbms.
CO 3	To understand importance of data models
CO 4	Practical approach to Query language commands
CO 5	To understand ACID properties of DBMS

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Semester V

Course Title: Programming in Java

Course Code: 6510

S.No	Students will be able to
CO 1	Through understanding of object oriented programming
CO 2	To run java programs and understand JVM, Features
CO 3	Create and Using Packages, Wrapper Classes, and String Class
CO 4	Handle various types of Exceptions in a program
CO 5	To use java.io Package and File Class. To use File Input Stream Class, File Output Stream Class

Semester VI

Course Title: Web Technology

Course Code: 6610

S.No	Students will be able to
CO 1	To do Basic Text Formatting and Editing Text, Core Elements and Attributes, Attribute Groups.
CO 2	To create Links with the <a> Element, Advanced E- mail Links. And navigation.
CO 3	To create use Frames using Frameset, <frame> Element, Creating Links Between Frames, , Nested Framesets,<iframe>.
CO 4	To create various CSS and Rules, Properties and also Positioning and Layout with CSS.
CO 5	To understand and use PHP script for web development.

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

2023 -2024

Semester I

Course Title: English Paper - I

Course Code: ESL101

S.No	Students will be able to
CO 1	To attain high proficiency in the 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 broad reading of fiction and poetry among the youth.
CO 4	To acquaint students 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 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 and drama.
CO 4	To develop the chronological approach to the study of Fictional and Non-Fictional Prose.
CO 5	Learn to analyze 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	Analyze 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 Analyze the text in their respective social and cultural contexts.
CO 5	Reflect on British life and culture through the 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 with proficiency in using grammar when 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 by focusing on grammar precision in both Prose and Poetry.
CO 5	Appreciation of how grammar choices impact the tone, style of prose and overall impact of Prose and Poetry.

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Semester III

Course Title: B.Sc. Chemistry

Course Code: 5

S.No	Students will be able to
CO 1	Interpret and analyze chemical reaction mechanisms and pathways.
CO 2	Understand and describe the properties and behavior of complex chemical systems.
CO 3	Understand chemical kinetics and reaction mechanisms,
CO 4	Develop laboratory skills, including experimentation, data analysis, and instrumentation.
CO 5	Apply physical chemistry principles to analyze and solve complex problems.

Semester IV

Course Title: B.Sc. Chemistry

Course Code: 5

S.No	Students will be able to
CO 1	Understanding thermodynamic principles.
CO 2	Apply concepts of stereochemistry and conformational analysis.
CO 3	Analyze and interpret data from physical chemistry experiments.
CO 4	Understand chemical change and reactivity.
CO 5	Apply quantitative methods to chemical problems.

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Semester V

Course Title: B.Sc. Chemistry

Course Code: 5

S.No	Students will be able to
CO 1	Understand spectroscopy and molecular analysis techniques.
CO 2	Analyze and interpret chemical data and spectra.
CO 3	Understand and apply biochemistry principles.
CO 4	Investigate chemical equilibrium and reactivity.
CO 5	Apply theoretical models to chemical systems.


Semester VI

Course Title: B.Sc. Chemistry

Course Code: 5

S.No	Students will be able to
CO 1	Understand and apply medicinal chemistry and drug design.
CO 2	Understand and apply principles of statistical mechanics and computational chemistry.
CO 3	Analyze and interpret data from analytical chemistry experiments.
CO 4	Understand the principles of chromatography (GC, HPLC, TLC).
CO 5	Explore chemical research and methodology.


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

2023 -2024

Semester I

Course Title: B.Sc. Chemistry

Course Code: 5

S.No	Students will be able to
CO 1	Demonstrate understanding of atomic structure and periodic trends.
CO 2	Apply principles of chemical bonding and reactivity.
CO 3	Identify and characterize chemical substances.
CO 4	Understand chemical stoichiometry and quantitative relationships.
CO 5	Describe chemical reactions and mechanisms.

Semester II

Course Title: B.Sc. Chemistry

Course Code: 5

S.No	Students will be able to
CO 1	Understand basic chemistry concepts.
CO 2	Understand and apply acid-base chemistry and pH principles.
CO 3	Study simple electrochemical reactions.
CO 4	Think critically about simple chemical problems.
CO 5	Analyze chemical properties and changes in matter.

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COURSE OUTCOMES

2023-2024

Political science

BA [EPP] & [HPML]

Semester I

Paper-1: Understanding Political Theory


CO - 1	Students acquired knowledge about political theory, political philosophy, and political thought.
CO - 2	Students learned about various meanings of equality with reference to Liberal, Marxist, and Feminist approaches.
CO - 3	Students could analyze various political science ideologies like Liberalism, Nationalism, Multiculturalism and Marxism.
CO - 4	Students analyzed the importance of Political institutions.
CO - 5	Students evaluated the Indian party system in terms of development and looked at the ideology of dominant national parties.

Semester-II

Paper II: Western Political Thought

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


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Semester III

Paper-3: Indian Political Thought

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

Semester IV

Paper-4: Constitution And Politics Of India

CO - 1	Students examined the agitations that took place in 1969,1972 and 2001.
CO - 2	Students developed the more profound understanding of the services of the local self-institutions in India.
CO - 3	They assessed the nature of Indian federalism with a focus on union-state relations.
CO - 4	Students understood the historical process, agencies and social forces that contributed to the formation of the Telangana state.
CO - 5	Students also analyzed the significance and composition of the high court.

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Semester V

Paper-5: International Relations

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

Semester VI

Paper-6: Global Politics

CO - 1	Students comprehended the functions of all financial institutions of the world (World Bank, IMF, WTO, IBRD).
CO - 2	They evaluated the concept of globalization with different dimensions.
CO - 3	Students learnt about international economic institutions, their origins and composition.
CO - 4	Students analyzed the concept of arms race, arms control and disarmament.
CO - 5	Students understood the emerging concepts of human rights, environment, and terrorism.



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oral presentations of research results, poster presentations at conferences, etc.

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 a few intermediates in their metabolism, monitoring the deficiency and abundance disorders of amino acid metabolisms, and the role of enzymes in regulating the pathways.
CO 5	Describe/recognize lipid and porphyrin structures, lipoproteins and functions of porphyrins (heme, chlorophyll etc.).

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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 significant 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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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	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

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

2023 -2024

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 characteristics of Arthropoda and metamorphosis in insects.

Semester II

Course Title: Ecology, Zoogeography, And Animal Behavior

S.No	Students will be able to
CO 1	To Describe Environmental Pollution and its Control Measures.
CO 2	To understand methods of wildlife and conservation and endangered species.
CO 3	To describe Innate and Acquired types of behavior.
CO 4	To identify Zoogeographical regions with their climatic and faunal peculiarities.

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

2023 -2024

Semester I

Course Title:

Course Code:

S.No	Students will be able to
CO 1	Determine Parameters such as Voltage and current.
CO 2	Analyze AC & DC Circuit using mesh Analysis
CO 3	Determine step response of RC, RL, and RLC Circuits
CO 4	Analyze AC Circuits using frequency domain.
CO 5	Calculate AC Powers in AC Circuits

Semester II

Course Title: Electronic Devices

Course Code: 6212

S.No	Students will be able to
CO 1	Describe the behaviour of Semiconductor materials.
CO 2	Reproduce V-I Characteristics of Diode/ BJT/MOSFET
CO 3	Apply standard device models to calculate the internal parameters of Semiconductors.
CO 4	Explain the behaviour of power devices SCR/UJT.
CO 5	Design and analysis of basic operations of BJT/FET

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Semester III

Course Title: Power Supplies and Analog Circuits

Course Code: 6312

S.No	Students will be able to
CO 1	Students can solve problems in the field of Analog Devices.
CO 2	Equip to design a regulated power supply.
CO 3	Develop to analyze feedback in amplifiers.
CO 4	Understanding and Designing multivibrator circuits
CO 5	Acquire knowledge in linear and non-linear applications of OPAMPS.


Semester IV

Course Title: Applications of Operational Amplifier and Communication

Course Code: 6412

S.No	Students will be able to
CO 1	Acquire knowledge of Non-Linear Applications of OPAMPS.
CO 2	Students will design circuits using 555 Timer.
CO 3	Design and test PLL.
CO 4	The Students can design analog systems using OPAMPS.
CO 5	Students can solve engineering problems in the field of analog Devices.


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Semester V

Course Title: Digital Electronics

Course Code: 6512

S.No	Students will be able to
CO 1	Have a thorough understanding of fundamental concepts of digital electronics.
CO 2	Solve Boolean expressions using theorems of Boolean Algebra.
CO 3	Ability to understand principles of digital circuits
CO 4	Design and Analyze combinational circuits to build more complex circuits.
CO 5	Ability to understand the logic behind complex circuits

Semester VI

Course Title: Micro Controller 8051

Course Code: 6613

S.No	Students will be able to
CO 1	Learn the importance of microcontrollers in real-time applications.
CO 2	Understand the function of the Controller.
CO 3	Organization of intel 8051 microcontroller
CO 4	Design Memory Interfacing Circuits
CO 5	Design and Implement 8051 Micro Controller-based systems

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Course Outcomes (COs): Public Administration

2023 -2024

Semester I

Course Title: Basics Of Public Administration


S.No	Students will be able to
CO 1	Students will understand how public administration is related to economics and psychology.
CO 2	Students are exposed to different approaches to kautilya.
CO 3	Students study the approaches by Taylor, Henry Fayol, Weber, etc.
CO 4	Students evaluate the different approaches, such as oriental, classical, scientific and bureaucratic.
CO 5	Students will analyze the ideas of various thinkers and concepts of social psychology approaches.

Semester II

Course Title: Concepts And Principles Of Public Administration

S.No	Students will be able to
CO 1	Students will critically evaluate the principles of line and staff agencies, leadership, and communication.
CO 2	Students will analyze the idea of new public administration.
CO 3	Students will be able to understand Minnow Brook Conference I, II, and III.
CO 4	Students will evaluate the concept of new public management.
CO 5	Students will critically evaluate the role of public services in the emergence and development of the new Telangana state.


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Semester III

Course Title: Indian Administration- Union Government


S.No	Students will be able to
CO 1	Students will understand the historical evolution and socio-economic, political, cultural and global context of Indian Administration.
CO 2	Students will be able to describe the post-independence Indian administration.
CO 3	Students will be able to understand the transformative role of Indian administration.
CO 4	Students will analyze the role of a central-level political executive, i.e., President, Prime Minister and Council of Ministers.
CO 5	Students will understand the workings of the central secretariat.

Semester IV

Course Title: State Administration

S.No	Students will be able to
CO 1	Students will understand the Indian administration's role as the main instrument of the state in achieving its developmental goals.
CO 2	Students will understand the significance of administrative reforms and their needs.
CO 3	Students better understand the Second Administrative Reforms Commission and its recommendations.
CO 4	Students will understand the concept of e-government.
CO 5	Students will analyze the importance of values and ethics in administration.


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Semester V

Course Title: Management Of Resource- Human Resource Management.

S.No	Students will be able to
CO 1	Students will understand the components of pay, the principles of pay and pay commissions.
CO 2	Students will understand the concept of performance appraisal, reward and incentives management.
CO 3	Students will analyze the idea of human resource development.
CO 4	Students will critically examine the training concept, its objectives, types and evaluation.
CO 5	Students will analyze the institutional capacity-building strategies and programmes.

Semester VI

Course Title: Financial & Material Management

S.No	Students will be able to
CO 1	Students will analyze the organization of the finance ministry.
CO 2	Students will evaluate the importance of center-state financial relations.
CO 3	Students will examine parliamentary financial committees.
CO 4	Students will understand the objective, introduction and application of financial management techniques.
CO 5	Students will demonstrate knowledge of the problems in applying E- material techniques.

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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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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 – Fredrick 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 Napoleaon – 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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COURSE OUTCOMES (CO'S): B. A.
PSYCHOLOGY 2023-2024

SEMESTER I

Title: PSYCHOLOGY

Code:

Students will be able to.

Describe key concepts, principles, and overarching themes in psycho

Develop a working knowledge of psychology's content domains

Describe applications of psychology.

Use scientific reasoning to interpret psychological phenomena.

Demonstrate psychology information literacy.

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SEMESTER II

Course Title: PSYCHOLOGY

Course Code:

10.

Students will be able to

Demonstrate the ability to apply methodologies that are used in the design of human-machine systems.

Demonstrate the ability to investigate basic and applied issues in Human Factors related areas.

Engage in real-world research and practice in the field.

Use academic knowledge and professional skills to help create Human Factors solutions for clients

Demonstrate professional team management and organizational skills

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SEMESTER III

Course Title: PSYCHOLOGY

Course Code:

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Students will be able to

1. Engage in innovative and integrative thinking and problem solving skills.

2. Interpret, design, and conduct basic psychological research.

3. Apply ethical standards to evaluate psychological science and practice.

4. Adopt values that build community.

5. Demonstrate effective writing skills.

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Quality Assurance
Department (Autonomous)



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DEPARTMENT OF PSYCHOLOGY
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SEMESTER IV

Course Title: PSYCHOLOGY

Course Code:

0.	Students will be able to
1	Exhibit effective presentation skills.
2	Apply psychological content and skills to career goals.
3	Demonstrate effective teamwork skills.
4	Develop meaningful professional direction for life after graduation.
5	Summarize and critique the psychology literature including core theories, particularly within their chosen area of specialization.

SEMESTER IV

Course Title: PSYCHOLOGY

Course Code:

0.

Students will be able to

Demonstrate their understanding and ability to implement basic and applied research designs.

Demonstrate knowledge of the range of analytic techniques that are in psychology.

Communicate both orally and in writing at a level that is appropriate professionals in their chosen area

Ethical and Social Responsibility in a Diverse World

Scientific Inquiry and Critical Thinking

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T.S. India

SEMESTER VI

Course Title: PSYCHOLOGY

Course Code:

Students will be able to

Demonstrate effective writing skills.

Exhibit effective presentation skills.

Demonstrate the ability to work effectively both independently and in group settings

Develop meaningful professional direction for a career after graduation

Demonstrate an understanding of the ethical and legal implications of conducting research in psychology.

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

2023 -2024

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
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.
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.


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

2023 -2024

Semester I

Course Title:

Course Code:


S.No	Students will be able to
CO 1	طلباء کو اس یونٹ میں ولی دکنی کی دو غزلوں کی تشریح سمجھانی جائیگی۔ طلباء اکبر الہ آباد اور شاعر مقوم کے حالات زندگی کا جائزہ لیں گے۔
CO 2	حصہ نظم و نثر II یونٹ طلباء کو اردو ڈرامہ کی تعریف اور تاریخ واقف کر وایا جائیگا۔
CO 3	طلباء امتیاز علی تاج اور بیگم قدسیہ کا ڈرامہ "تلاش" کو پڑھیں گے۔ طلباء شاعر آتش کی شاعری کو سمجھیں گے اور ساتھ ہی ان کے حالات زندگی کا جائزہ لیں گے۔
CO 4	حصہ غزل III یونٹ اس یونٹ میں طلباء کو مرزا اسد اللہ خاں غالب کی دو غزلوں کی وضاحت کی جائیگی۔
CO 5	طلباء اردو ادب میں فنون لطیفہ کا جائزہ لیں گے۔

Semester II


Course Title:

Course Code:

S.No	Students will be able to
CO 1	اس یونٹ میں طلباء کو مرزا اسد اللہ خاں غالب کی دو غزلوں کی وضاحت کی جائیگی۔
CO 2	طلباء اردو ادب میں فنون لطیفہ کا جائزہ لیں گے۔
CO 3	طلباء کو "خاکہ" کی تعریف اور اس کی خصوصیت کے بارے میں سمجھا یا جائیگا۔
CO 4	خاکہ نگار سلیمان اریب کی حالات زندگی کو طلباء پڑھیں گے۔ اور خاکہ "سلیمان اریب" کا جائزہ لیں گے۔
CO 5	طلباء شاعر لدھیانوی کے حالات زندگی اور ان کی شاعری کا جائزہ لیں گے۔


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Semester III


Course Title:

Course Code:

S.No	Students will be able to
CO 1	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 جان نثار اختر، میر انیس کے حالات زندگی کا مطالعہ کریں گے۔ طلبا رپورٹز کے بارے میں سمجھیں گے۔
CO 2	حصہ نثر و نظم II یونٹ طلبا کو داستان کی اہمیت اس کی افادیت کے بارے میں سمجھا یا جائیگا۔
CO 3	طلبا داستان کی خصوصیت کو سمجھیں گے۔ داستان کی ابتداء و ارتقا پر روشنی ڈالی جائیگی۔
CO 4	اس یونٹ میں طلبا کو "ربا عیات" کی تعریف و تاریخ کے بارے میں سمجھا یا جائیگا۔
CO 5	طلبا کو شاعر "جگت مو بن رواں" اور "ملا وجہی" کے حالات زندگی کے بارے میں آگاہ کیا جائیگا۔


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Semester IV

Course Title:

Course Code:

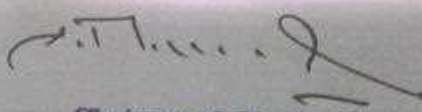
S.No	Students will be able to
CO 1	نثر و نظم IV یونٹ اس یونٹ میں طلبا کو اردو میں مضمون نگاری کی تعریف سمجھانی جائیگی۔
CO 2	قدیم دکنی اردو کی خصوصیات سے طلبا کو واقف کر دیا جائیگا۔
CO 3	نصیر الدین ہاشمی اور جگت موہن لال رواں کے حالات زندگی کو بیان کیا جائیگا۔
CO 4	اس سمسٹر کے یونٹ میں روایتی اور شخصی مرثیہ کے بارے میں طلبا کو سمجھا یا جائیگا۔
CO 5	الطاف حسین حالی کی حالات زندگی کے بارے میں سمجھا یا جائیگا۔

Semester V

Course Title:

Course Code:

S.No	Students will be able to
CO 1	I یونٹ طلبا کو اردو کی ابتداء اور ارتقا کے بارے میں تفصیل سے سمجھا یا جائیگا
CO 2	طلبا اس کو بات کو سمجھیں گے کہ اردو زبان کے فروق میں اولیا نے اکرام کا کیا حصہ تھا
CO 3	طلبا کو قطب شاہی، عادل شاہی حکومتوں کے قیام کے بارے میں سمجھا یا جائیگا۔
CO 4	طلبا قطب شاہی اور عاشاہی دور کے شعراء کی تعریف اور ان کی شعری خصوصیات کے بارے میں پڑھیں گے
CO 5	II یونٹ طلبا ولی دکنی کی حالات زندگی کے بارے میں سمجھنے کی کوشش کریں گے


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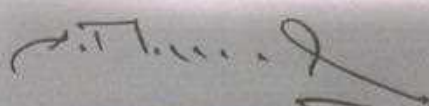


Semester VI

Course Title:

Course Code:

S.No	Students will be able to
CO 1	طلباء اس یونٹ میں سراج اورنگ آبادی، نظیر اکبر آباد کی حالات زندگی اور ان کی شاعری کی خصوصیات کو سمجھیں گے۔
CO 2	طلباء کو "حکایت" کے بارے میں وضاحت دی جائیگی۔ اور ساتھ ہی "حکایت سعادت" کے بارے میں سمجھا یا جائیگا۔
CO 3	طلباء "افسانہ" کی تعریف اور تاریخ کے بارے میں پڑھیں گے۔
CO 4	افسانہ "یہ غازی تیرے پر اسرار بندے" کے بارے میں طلباء کو سمجھا یا جائیگا۔
CO 5	سراج اورنگ آبادی کی غزل گوئی کے بارے میں طلباء کو سمجھا یا گیا۔


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

2023 -2024

Semester I

Course Title: Introduction to Food and Nutrition

S.No	Students will be able to
CO1	Understand the importance of food and the meaning of nutrition and familiarize them with RDA and Recommendations and guidelines.
CO2	Better understanding of the physiological and metabolic functions of nutrients in human nutrition.
CO3	Gain in-depth knowledge of the physiological and metabolic role of micronutrients, fat-soluble and water-soluble vitamins, electrolytes, and their importance in human nutrition.
CO4	Acquire a practical understanding of the science of cooking each food group.
CO5	Analyze the factors 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	Analyze 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 of changes during various stages of growth and development throughout the lifecycle.
CO3	Thorough understanding of the basis of human nutritional requirements and recommendations throughout the human life cycle.
CO4	Understand the modifications in the diet according to the condition of an individual.
CO5	Gain knowledge of planning diets, preparing recipes according to the modifications required, and displaying 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 to prevent and treat various diseases.
CO4	develop skills and techniques in planning and preparing 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, organize, and assess data relating to individuals' health and nutritional status in line with the nutrition care process.
CO5	Demonstrate professional conduct and recognize 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	Epidemiologic methods are used to analyze patterns of disease and injury and discuss applications to control problems.
CO3	Understand the relationship between environmental factors and community health.
CO4	Management in the planning, implementing, and evaluating health programs for individuals and populations.
CO5	Address behavioral, social, and cultural factors that impact individual and population health.

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1. Students will learn the meaning, importance, scope and evolution of public administration.
2. Students will be able to comprehend the changing paradigms of public administration.
3. Students will understand the nature of public administration.
4. Students will understand the strong relationship between public administration and law.
5. Students will study the relationship between public administration and political science.

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

1. Students will appreciate the nature scope and changing patterns of public administration.
2. Students will demonstrate the knowledge about comparative administration and development administration.
3. Students will be able to evaluate the organizational process and principles such as hierarchy, span of control, coordination, and division of work and unity of command.
4. Students will understand the synthesizing nature of knowledge of public administration from public perspective.
5. Students will grasp the administrative theories, concepts and principles to make sense of administrative practice.

Course Objective- Paper- III INDIAN ADMINISTRATION – Union Government

1. Students will evaluate the function and the role of other offices in union administration.
2. Students will assess the latest trend in Centre state relations.
3. Students will analyze the legislative, administrative and financial relations between Centre and state.
4. Students will understand the working of Central personnel agencies all India services.

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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 MANAGEMAMENT

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

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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.

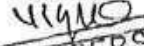
4. Students will understand the concept of e-government.
5. Students will analyze the importance of values and ethics in administration

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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DEPARTMENT OF ARABIC

COURSE OUTCOMES

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

Program me Objective (General)


1. The Arabic language makes the students learn their religious book, the holey Quran.
2. It provides knowledge related to culture & civilization and development of social behavior.
3. Students gain proficiency in an additional language while supporting maintenance of their mother tongue and cultural heritage.
4. Teaching and learning of languages is to enable the student to become a critical & competent communicator.
5. The Dept. Of Arabic is one of the oldest dept. Of AUC.

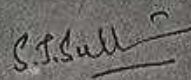
PROGRAMME OUTCOMES (GENERAL)

1. Learning Arabic can help the students better communicate with Arabs, they came to know Arab culture, including its religion Islam.
2. Arabic is a very popular second language to be learned as it allows businesses to grow their international relations and expand to new markets.
3. Learn the Arabic language opens up many employment avenues and possibilities such as oil, travel finance industrial collaboration & translation.
4. Students achieve advanced language proficiency in the four areas of language performance, speaking, listening, reading and writing.
5. students graduating with a foreign language(Arabic) from the Dept.of Arabic will be able to: Communicate effectively in the Arabic language

Program specific outcomes:


1. Communication skills in Arabic and English provide immense career and business opportunities.
2. Arabic based computer skills would help in Arabic data entry and back end operations for banks and software companies.
3. Work as translators in Arab speaking world.
4. Become freelance writers, journalists and creative artists.
5. Develop competence and caliber to serve as efficient teachers in Arabic.


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DEPARTMENT OF ARABIC

COURSE OUTCOMES BA/ B.SC/ B.COM/ BBA/ BBM

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PROGRAMME OUTCOMES (GENERAL)

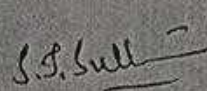
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Department: PUBLIC ADMINISTRATION

Year: 2023-24 - 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 learns 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 administrativesystem.
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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Course Outcomes (CO's): M.Sc. Biotechnology

2023 -2024

Semester I

Course Title: Cell Biology and Genetics, Biological Chemistry, Microbiology, Biostatistics, laboratory management and safety, entrepreneurship.

S.No	Students will be able to
CO 1	Comprehend the cellular architecture and processes and ability to apply Mendelian inheritance principles to humans, plants, and animals.
CO 2	Understanding of how cells communicate and carry out Physiological processes, Understanding the basics of bimolecular, Bioenergetics, and enzymology
CO 3	To culture different bacteria and know how to preserve them, Understand the basics of Microbiology and Microbial classification.
CO 4	Good laboratory practices, how to be a successful entrepreneur, and how to estimate appropriate descriptive measures for a data in a given study design.

Semester II

Course Title: Molecular Biology- The Genome, Molecular Biology- Genes to Protein, Immunology, Microbial Techniques.

S.No	Students will be able to
CO 1	The subject gives an in-depth knowledge of biological processes through investigating molecular mechanisms.
CO 2	The subject helps me to form a research career in molecular biology or related areas.
CO 3	Students can learn about the latest research and development in Biotechnology and related areas.
CO 4	Students can use microorganisms to produce products of economic value and decompose municipal and industrial wastes.


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Semester III

Course Title: rDNA Technology, Bioinformatics, Food Biotechnology, Animal Biotechnology.

S.No	Students will be able to
CO 1	It enables the creation of multiple copies of genes and gene manipulation.
CO 2	It helps the student to understand and organize the information associated with molecules on a large scale.
CO 3	Students learn about food preservation, processing, packaging, and distribution. Individuals can learn about the sensory properties of food.
CO 4	Students can learn about Animal cell, tissue, and organ culture techniques like IVF and Embryo transfer.

Semester IV

Course Title: Bioprocess Engineering, Medical Biotechnology, Environmental Biotechnology,

S.No	Students will be able to
CO 1	Students learn to evaluate microbes' cultivation, enrichment, and growth prevention methods. They can learn how microbes and enzymes can be applied in the industry.
CO 2	Students can learn about genetic diseases and relate them to medical experience. They learn of gene therapy.
CO 3	Students learn to keep the environment clean, develop environmentally friendly products, and improve energy sources.

Course: Project

S.No	Students will be able to
CO 1	Students learn to show enthusiasm and commitment to the task. They learn to show an overall perspective related to the chosen topic.
CO 2	The students learn to choose relevant techniques.

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

2023 -2024

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
CO 5	Study microbial nutrition and their metabolism


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


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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
CO 5	Explain rules of data collection, repetition, manuscript preparation, QA, QC, GLP, GMP, patents & IPR


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


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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.
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

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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


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.
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


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Semester III

Course Title: Environmental and Agricultural Microbiology – Paper-I

Course Code: MB 301


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
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
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 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
CO 3	Discuss analysis of protein-protein and protein DNA interactions
CO 4	Explain Bioinformatics and perform biological information with bioinformatic tools
CO 5	Perform Molecular docking and in-silico ADME and toxicity calculations


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.
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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
CO 3	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.

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Semester IV

Course Title: Food Microbial Technology – Paper-I

Course Code: 401

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

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
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-III

Course Code: 403

S.No	Students will be able to
CO 1	Explain Microbial ecology and microbial diversity in ecosystem
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.

Course: Project

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

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

2023 -2024

Semester- 1

Human Nutrition Nutritional Biochemistry -I /

Human Physiology / Principles of Dietetics

S.No	Students will be able to
CO 1	To impart in-depth knowledge regarding the prevalence, etiology, diagnosis, diet and lifestyle management of different diseases
CO 2	To gain knowledge on methods of assessment of nutritional status among individuals and the interaction of drugs and nutrients
CO 3	To know the classification, functions and metabolism of carbohydrates, amino acids, proteins and nucleic acids.
CO 4	To enable students to understand the functions of various systems in the body
CO 5	To impart in-depth knowledge regarding the prevalence, etiology, diagnosis, diet and lifestyle management of different diseases.


Semester II

Principles of Food Nutritional Biochemistry -II /

Research Methodology / Diet In Disease

S.No	Students will be able to
CO 1	To provide an understanding of the composition of various foodstuffs
CO 2	To know the classification, functions and metabolism of lipids, vitamins and minerals.
CO 3	To impart in-depth knowledge on the collection, compilation and analysis of data
CO 4	To impart in-depth knowledge regarding prevalence etiology, diagnosis, diet and lifestyle management in acute and chronic disease
CO 5	To gain knowledge to recommend and provide appropriate nutritional care to prevent and treat 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
CO 1	To understand the causes, determinants and consequences of nutritional problems in the community
CO 2	To familiarise students with various approaches to Nutrition and health intervention programs and policies
CO 3	Students can compare various physical and chemical methods used to control microorganisms.
CO 4	Students can apply management theories and development programs for food services.
CO 5	Students will be able to understand strategies for maternal and child care.

Semester IV

Advanced Nutrition /Diet Counseling and Psychology
Skills /Food Microbiology and Food Safety

S.No	Students will be able to
CO 1	Students will be well versed in terms and terminology of advanced nutrition. Complete knowledge of the bioavailability of nutrients
CO 2	Students will be able to ascertain the microbial load and microbial assay.
CO 3	Students will be able to understand the dietitian's role and provide empathetic counselling sessions.
CO 4	Students can apply ethical decision-making to complex clinical and community-related nutritional problems.
CO 5	Students will be developing and demonstrating a commitment to evidence-based and intervention procedures.

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Course: Project

S.No	Students will be able to
CO 1	Students will be able to choose an appropriate topic for study, compile the relevant literature, and plan a research design, including sampling.
CO 2	Students will be able to create a logically coherent project report and will be able to defend their work in front of a panel of examiners.

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Course Outcomes (CO's): M.Sc. Organic Chemistry

2023 -2024

Semester I

Course Title: M.Sc. Organic Chemistry

Course Code: 5

S.No	Students will be able to
CO 1	Understand the fundamental principles of chemistry, including atomic structure, chemical bonding, and chemical reactions.
CO 2	Describe the properties and behavior of matter, including states of matter, phase changes, and chemical equilibria.
CO 3	Recognize and explain the principles of chemical kinetics, thermodynamics, and quantum mechanics.
CO 4	Analyze and interpret data from chemical experiments, including laboratory techniques and instrumentation.
CO 5	Apply mathematical models to solve chemical problems, including stoichiometry and chemical equations.

Semester II

Course Title: M.Sc. Organic Chemistry

Course Code: 5

S.No	Students will be able to
CO 1	Identify, classify, and characterize chemical substances based on their properties, composition, and structure.
CO 2	Explain and apply fundamental principles.
CO 3	Test chemical hypotheses, including selecting appropriate methods and materials.
CO 4	Analyze and interpret data from advanced chemical experiments.
CO 5	Understand and apply principles of electrochemistry.


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Semester III

Course Title: M.Sc. Organic Chemistry

Course Code: 5

S.No	Students will be able to
CO 1	Apply computational chemistry and molecular modeling techniques.
CO 2	Apply chemical principles to pharmaceuticals and drug development.
CO 3	Understand chemical stoichiometry and quantitative relationships.
CO 4	Characterize materials using advanced analytical techniques.
CO 5	Analyze and interpret data from analytical chemistry experiments.

Semester IV

Course Title: M.Sc. Organic Chemistry

Course Code: 5

S.No	Students will be able to
CO 1	Apply environmental chemistry and toxicology principles.
CO 2	Understand and apply medicinal chemistry and drug design.
CO 3	Develop and apply analytical and separation techniques.
CO 4	Apply chemical engineering and process development principles.
CO 5	Demonstrate expertise in a specialized area of chemistry (e.g., organic, inorganic, physical, analytical)

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Course: Project

S.No	Students will be able to
CO 1	Evaluate and improve existing chemical methods and technologies.
CO 2	Demonstrate expertise in research ethics and integrity.


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Course Outcomes (COs): M.Com

2023 -2024

Semester I

Course Title: Indian Accounting Standards

Course Code: COM 1 Core I

S.No	Students will be able to
CO 1	Introduce and develop knowledge of Indian Accounting Standards.
CO 2	Know about Indian Accounting Standards (1-21)
CO 3	Develop knowledge of Indian Accounting Standards (23 to 41)
CO 4	Acquaint with Indian Accounting Standards(101- 106)
CO 5	Know about Indian Accounting Standards (107-115)



Semester I

Course Title: Managerial Economics and Business Environment

Course Code: COM 2, Core II

S.No	Students will be able to
CO 1	Develop knowledge about the nature and scope of Managerial Economics.
CO 2	Forecast demand in light of changing circumstances and formulate business plans
CO 3	Gain knowledge of production analysis and cost analysis.
CO 4	Get acquainted with Business objectives, Dynamics of business and environment and its analysis.
CO 5	Gain knowledge about strategies of global trade. Also, they will be able to discuss foreign trade in India, foreign direct investments and its implications on Indian industries


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Semester I

Course Title: Marketing Management

Course Code: COM 3:core III

S.No	Students will be able to
CO 1	Demonstrate conceptual solid knowledge in the functional area of marketing management.
CO 2	Demonstrate adequate understanding of the marketing environment and international marketing.
CO 3	Understand analytical skills in market segmentation, targeting and positioning.
CO 4	Understand the channel of distribution and retailing.
CO 5	Understand digital marketing and marketing information systems.


Semester I

Course Title: Financial Management

Course Code: COM 4:Core IV

S.No	Students will be able to
CO 1	Demonstrate the applicability of the concepts of Financial Management and understand Managerial decisions and the time value of money.
CO 2	Apply capital budgeting techniques to find out risk analysis in Capital Budgeting Decisions.
CO 3	Analyse working capital requirements and cash management.
CO 4	Acquainted with capital cost, leverages, and capital structure.
CO 5	Demonstrate with dividend policy and dividend theories.


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Semester II

Course Title: Advance Managerial Accounting

Course Code: COM 5 core 1

S.No	Students will be able to
CO 1	Understand the analysis of Financial statements.
CO 2	Develop knowledge of Human resource accounting. and responsibility accounting.
CO 3	Know about inflation Accounting and income measurement.
CO 4	Develop skills in financial measures of performance.
CO 5	Understand various contemporary issues in management accounting.


Semester II

Course Title: Organisation Behavior and Human Resource Management

Course Code: COM 6:Core II

S.No	Students will be able to
CO 1	Demonstrate the applicability of the basic concepts of Organizational Behaviour.
CO 2	Demonstrate the applicability of analyzing the complexities associated with the Management of individuals.
CO 3	Develop an understanding of Human Resource Management and HR Development.
CO 4	Know methods and evaluation of training and development and performance management.
CO 5	Acquaint with compensation management


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Semester II

Course Title: E-Commerce

Course Code: COM 7 Core: III

S.No	Students will be able to
CO 1	Know the basic concepts and technology used in the field of E-Commerce.
CO 2	Understand the working EDI and Internet.
CO 3	Will be able to create a static web page using HTML.
CO 4	Can generate the account groups and ledger.
CO 5	Generate profit and loss account balance sheets and other MIS reports.

Semester II

Course Title: Investment Management

Course Code: COM 7 Core: III

S.No	Students will be able to
CO 1	Able to know the basic concept and principles of Investment Management and financial assets
CO 2	Analyse and evaluate Indian capital markets.
CO 3	Able to know risk and return analysis.
CO 4	Able to know portfolio analysis.
CO 5	To learn about portfolio selection and the sharp single index model,

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Semester III

Course Title: Research Methodology and Quantitative Techniques

Course Code: COM:9 Core I

S.No	Students will be able to
CO 1	Understanding of Qualitative and Quantitative methods of research.
CO 2	Able to understand statistical measures.
CO 3	Interpret the data analyses and will be able to write a report.
CO 4	Understand that Inference statistics involves testing a hypothesis.
CO 5	Able to interpret the results from one-way ANOVA, Two-way, and Chi-Square tests.


Semester III

Course Title: Cost Accounting and Control

Course Code: COM 10 Core: II

S.No	Students will be able to
CO 1	Able to know what cost accounting is and how it is implemented in manufacturing concerns
CO 2	Able to understand how to maintain books of accounts in process accounting
CO 3	Know how to apply different costing techniques.
CO 4	Able to prepare different types of Budgets
CO 5	Able to know about Standard Costing


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Semester III

Course Title: International Financial Management

Course Code: COM 11 Elective: I

S.No	Students will be able to
CO 1	Recognize the difference in the operations in International and domestic financial markets.
CO 2	Understand how the exchange rates prevailed over the years in the international markets.
CO 3	Recognize the operations in the currency market and solve exchange rate determination in spot and forward markets.
CO 4	Able to understand Capital budgeting, discounting and non-discounting methods.
CO 5	Understand how to select sources of funds in the international Financial Market.


Semester III

Course Title: Security Analysis And Portfolio Management

Course Code: COM 12 Elective: II

S.No	Students will be able to
CO 1	Understand different Investment alternatives in the market.
CO 2	Understand how securities are traded in the market.
CO 3	Able to manage a portfolio
CO 4	Understand the basics of derivatives.


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Semester IV

Course Title: Strategic Management

Course Code: COM 13 Core: I

S.No	Students will be able to
CO 1	Understand strategic Management and corporate governance.
CO 2	Evaluate environment analysis.
CO 3	Design the vision and mission of the organization.
CO 4	Able to understand Performance evaluation (ROI, EVA and MVA)

Semester IV

Course Title: Taxation

Course Code: COM 14 Core: II

S.No	Students will be able to
CO 1	Able to know how to apply various provisions while assessing a partnership firm as an association of person
CO 2	Able to asses various companies
CO 3	Able to asses different types of companies compute tax liability.
CO 4	Able to assess GST and customs duties

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Semester IV

Course Title: Financial Derivatives

Course Code: COM 15 Elective: III

S.No	Students will be able to
CO 1	Understand the concepts of various derivatives products such as futures, options and swaps.
CO 2	Demonstrate the features of forward and futures markets, demonstrate critical thinking, analytical and problem-solving skills in the context of derivatives pricing and hedging practices.
CO 3	Able to solve the problems of pricing of currency swaps and interest rate swaps.
CO 4	Able to understand the binomial trading model.

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

2023 -2024

Semester- I

Course Title: M.A English

Course Code:

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: M.A English

Course Code:

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: M.A English

Course Code:

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: M.A English


Course Code:

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

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

2023 -2024

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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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.

Head Department of Botany
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