PROGRAMME EDUCATIONAL OUTCOMES (PEO)

PEO1: To produce Graduates with the ability to think critically, analyze information, and solve problems effectively across various disciplines within the arts and sciences.

PEO2: To produce Graduates with strong written, oral, and visual communication skills, enabling them to express ideas clearly and coherently across diverse audiences.

PEO3: To produce Graduates with an understanding and appreciation of diverse cultures, societies, and global issues, fostering a sense of empathy and global citizenship.

PEO4: To produce Graduates with an ability to recognize ethical issues and demonstrate responsible behavior, considering the impact of their actions on society, the environment, and their respective fields.

PEO5: To produce Graduates with the capacity and motivation for lifelong learning, adapting to new technologies, and acquiring new skills to thrive in evolving professional environments.

PEO6: To produce Graduates equipped with basic research skills, enabling them to gather, interpret, and apply information effectively within their disciplines.

PEO7: To produce Graduates to understand the connections between different disciplines within arts and sciences, fostering interdisciplinary approaches to problem-solving and innovation.

PEO8: To produce Graduates with the skills necessary for personal growth, including self-reflection, time management, and the ability to work independently or collaboratively.

PEO9: To produce Graduates with a foundation of knowledge and skills that makes them adaptable and competitive in a diverse range of careers or further academic pursuits.

PROGRAMME SPECIFIC OUTCOMES (PO)

UNDERGRADUATE GENERAL DEGREE PROGRAMMES

PO1: Domain Knowledge: A deep understanding of the core concepts, theories, and practices within the chosen field of study.

Provision in Course Profile: 1. Part III: Core papers – Theory & Practical

PO2: Critical Thinking: The ability to analyze and evaluate information critically, make reasoned judgments, and solve problems effectively.

Provision in Course Profile: 1. Part III: Core papers – Theory & Practical 2. Allied papers Theory & Practical 3.Part IV: Non-Major Electives

PO3: Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

Provision in Course Profile: 1.Part I: Language 2. Part II: English

PO4: Research, Ethical and Professional Responsibility: Ability to conduct research, gather relevant information, and apply critical thinking to solve problems or explore new ideas. Understanding of professional ethics and responsibilities within the field, including societal and environmental impacts.

Provision in Course Profile: Part III: Core papers: Theory & Practical and Project.

PO5: Teamwork and Collaboration: The capability to work effectively in diverse teams, demonstrating respect for others' contributions and working towards common goals.

Provision in Course Profile: Part III Group Project, Part V Extension and Assessment Components.

PO6: Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

Provision in Course Profile: 1.Part V: Value Education 2. Part III: Core & Major Optional papers- Women oriented, Recent Trends based courses.

PO7: Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

Provision in Course Profile: 1.Part V: Extension Activities- Environmental Science

PO8: Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

Provision in Course Profile: 1.Part III: Core/Major – Project/ Self - Study paper 2. NPTEL/FOSS- Online courses

PO9: Economic Independence & Employability Potential: Acquire the ability to be involved in economically sustainable employment opportunity and inculcate entrepreneurial abilities.

Provision in Course Profile: 1. Part VI - Certificate & Diploma Courses, Part III-Skill based courses.

POST GRADUATE GENERAL DEGREE PROGRAMMES

PO1: Advanced Subject Mastery: Demonstrate a comprehensive and advanced understanding of the specialized field of study, including its theories, methodologies, and current trends.

Provision in Course Profile: Core / Major Courses

PO2: Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

Provision in Course Profile: Core / Major Courses

PO3: Professional Development and Leadership: Enhanced leadership qualities and professional development skills, including project management, team leadership, and strategic decision-making.

Provision in Course Profile: Core courses Assessment Components III & IV

PO4: Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

Provision in Course Profile: 1. Value Education Courses 2. Celebration of National festivals

PO5: Ethical and Social Responsibility: Understanding and application of ethical principles within the specialized field, considering social and global implications of professional practice.

Provision in Course Profile: PG Service learning course

PO6: Research Proficiency: Ability to conduct independent research, design experiments, gather and analyze data, and draw meaningful conclusions based on rigorous investigation.

Provision in Course Profile: 1. PG Project 2. Research Methodology course

PO7: Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

Provision in Course Profile: Core / Major courses

PO8: Adaptability and Innovation: Ability to adapt to rapidly changing environments, integrate new technologies, and innovate within the field of study.

Provision in Course Profile: PG Project

PO9: Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

Provision in Course Profile: 1.Core/Major papers 2.Compulsory Project

RESEARCH PROGRAMMES - M.Phil. & Ph.D.

PO1: Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

Curricular Provision: Core/Major papers

PO2: Patriotism & Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

Non-Curricular Provision: Celebration of national festivals

PO3: Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

Curricular Provision: Research Methodology

PO4: Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

Non-Curricular Provision: Study Circle & Research based paper presentation on & off campus mode.

PO5: Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological change.

Curricular Provision: Research Projects

PROGRAMMES SPECIFIC OUTCOMES (PSOs)

DEPARTMENT OF TAMIL
PROGRAMME SPECIFIC OUTCOMES (PSO) – BA TAMIL

PSO No.	On completion of this programme, the students will be able to
PSO-1	தமிழ் இலக்கியம் மற்றும் இலக்கணங்களின் வளர்ச்சி நிலைகளை அறிந்து கொள்வர்.
PSO-2	தமிழர் வரலாற்றினையும் பண்பாட்டினையும் புரிந்து கொள்வர்.
PSO-3	இலக்கியம் வழி கண்டறிந்த நெறிகளை வாழ்வில் பொருத்திப் பார்க்கும் திறனைப் பெறுவர்.
PSO-4	தமிழியல் கூறுகின்ற மெய்மைகளைக் காரண காரிய அடிப்படையில் பகுத்தாய்வர்.
PSO-5	தமிழ் இலக்கியம் முன்மொழிகின்ற செந்நெறிகளை மதிப்பிட்டு ஆராயும் திறன் பெறுவர்.
PSO-6	தமிழ் இலக்கிய வகைமைகளை கற்றுத்தெளிந்து புத்திலக்கியங்களைப் படைக்கும் திறன் மற்றும் பணி வாய்ப்பினை பெறும் திறன் பெறுவர்.

PROGRAMME SPECIFIC OUTCOMES (PSO) – MA TAMIL

PSO No.	On completion of this programme, the students will be able to
PSO-1	தமிழ் இலக்கியம் மற்றும் இலக்கண கொள்கைகளை அறிந்து கொள்வர்.
PSO-2	தமிழர் வரலாறு மற்றும் பண்பாட்டினை கோட்பாடுகள் அடிப்படையில் புரிந்து கொள்வர்.
PSO-3	இலக்கியம் வழி கண்டறிந்த வாழ்வியல் நெறிகளை சமுதாயத்தில் நடைமுறைப்படுத்தும் அல்லது பொருத்திப்பார்க்கும் திறனைப் பெறுவர்.
PSO-4	தமிழியல் கூறுகின்ற மெய்மைகளைக் காரண காரிய அடிப்படையில் பகுத்தாய்வர்.
PSO-5	தமிழ் இலக்கியம் முன்மொழிகின்ற செந்நெறிகளை மதிப்பிட்டு ஆராயும் திறன் பெறுவர்.
PSO-6	தமிழ் இலக்கிய வகைமைகளை கற்றுத்தெளிந்து புத்திலக்கியங்களைப் படைக்கும் திறன் மற்றும் பணி வாய்ப்பினை பெறும் திறன் பெறுவர்.

DEPARTMENT OF ENGLISH

PROGRAMME SPECIFIC OUTCOMES (PSO) – BA ENGLISH

PSO. No	On completion of the programme, the students will be able to
PSO-1	Understand literary texts and theoretical framework of literature.
PSO-2	Apply the theoretical and communication knowledge of different theories in English Learning and Teaching.
PSO-3	Compare the cultural context of different nations through literature.
PSO-4	Acquire employability skills to excel in literary and media professions.
PSO-5	Critique the socio-political and environmental inequalities.
PSO-6	Develop a research skill through project and present their independent ideas effectively.

PROGRAMME SPECIFIC OUTCOMES (PSO) – MA ENGLISH

PSO. No	On completion of the programme, the students will be able to
PSO-1	Acquaint with the historical and conceptual understanding of literature from 16th century to 21st century
PSO-2	Categorize the major trends, ideas and genres of the different ages of literature.
PSO-3	Interpret the classical literary text and its rich translation.
PSO-4	Reinforce the pronunciation skills through phonetics and linguistics terms.
PSO-5	Defend equalities in all sectors of literature such as race, age and gender and practice them in real life.
PSO-6	Create their own idea of complex nature of literary studies and apply them in their original works within a research framework.

DEPARTMENT OF BUSINESS ADMINISTRATION

PROGRAMME SPECIFIC OUTCOMES (PSO) – BBA

PSO No.	On completion of the Programme, the students will be able to
PSO-1	Understand and remember the concepts of various disciplines of management, economics, accounting, marketing, finance, human resource and corporate governance.
PSO-2	An ability to apply conceptual foundations of management to solve practical decision-making problems.
PSO-3	Execute technical competence in domestic and global business through the study of various dimensions in the field of business studies.
PSO-4	Develops overall personality through proper education skill enhancement courses & inculcate human values.
PSO-5	Creating the ability to understand the impact of managerial decisions on global economic and environmental context.
PSO-6	Acquire Entrepreneurial traits start to manage their own innovative business successfully.

DEPARTMENT OF COMMERCE

PROGRAMME SPECIFIC OUTCOMES (PSO) – B.COM

PSO No.	On completion of the programme, the students will be able to
PSO-1	Understand and acquire knowledge on various concepts in the discipline of Commerce
PSO-2	Develop business skills, positive attitude to meet the expectation of the industry at the national and global level.
PSO-3	Apply the statutory regulations that govern business of corporate sectors.
PSO-4	Discover the business opportunities to create and manage social innovations for sustainable entrepreneurship.
PSO-5	Adapt to rapidly changing environment with learned knowledge and skills and become socially responsible citizen.
PSO-6	Build a professional career and/or further higher education in the specified areas of specialization.

PROGRAMME SPECIFIC OUTCOMES (PSO) – M.COM

PSO No.	Upon completion of the Programme, the students will be able to
PSO-1	Understand the advanced theories, methodologies, and current trends within the specialized field of study.
PSO-2	Identify underlying assumptions that frame thinking and actions in commerce-related scenarios, demonstrating the ability to recognize implicit beliefs influencing decision-making.
PSO-3	Apply advanced project management skills to successfully plan, execute, and evaluate complex business projects within the commerce domain.
PSO-4	Analyze and critically assess issues of social concern related to commerce, including economic disparities, ethical business practices, and corporate social responsibility.
PSO-5	Evaluate and critically assess the application of ethical principles within the specialized field of commerce, considering the complexities of business decision-making
PSO-6	Design and develop independent research projects and strategies, to get an employability in the field of commerce and industry.

PROGRAMME SPECIFIC OUTCOMES (PSO) – B.COM (CA)

PSO No.	Upon completion of the programme, the students will be able to
PSO-1	Understand the operative systems fundamental knowledge of software commonly used in academic and professional environments.
PSO-2	Develop business skills, positive attitude to meet the expectation in the industry at the national and global level.
PSO-3	Apply the statutory regulations that govern business of corporate sectors.
PSO-4	Discover e- business opportunities to create and manage social innovations for sustainable e-entrepreneurship and become socially responsible citizen. .
PSO-5	Adapt to recent office automation with computers and computer software applications
PSO-6	Build a professional career and/or further higher education in the specified areas of specialization.

DEPARTMENT OF MATHEMATICS

PROGRAMME SPECIFIC OUTCOMES (PSO) – B.SC MATHEMATICS

PSO No.	On completion of the Programme, the students will be able to
PSO-1	Understand the fundamentals of Pure and Applied Mathematics and think possibilities for problems and find alternate solutions.
PSO-2	Demonstrate mathematical thoughts and ideas clearly and concisely to others by effective communication
PSO-3	Apply Mathematics in real life situations aiming at service to the society.
PSO-4	Analyze mathematical systems utilizing rich experiences that encourage independent, nontrivial, constructive exploration in mathematics.
PSO-5	Determine professional and ethical responsibility that has an impact on their higher studies and Professional career.
PSO-6	Develop sound mathematics knowledge to take competitive exams and get placed

PROGRAMME SPECIFIC OUTCOMES (PSO) – M.SC MATHEMATICS

PSO No.	On completion of the Programme, the students will be able to
PSO-1	Gain knowledge an advanced models and methods of Mathematics.
PSO-2	Understand the societal and ethical responsibilities of the professionals in their respective discipline.
PSO-3	Inculcate the habit of self-learning throughout life, through self- paced and self-directed learning aimed at personal development.
PSO-4	Create awareness to become an enlightened citizen with commitment to deliver one's responsibilities within the scope of bestowed rights and privileges
PSO-5	Deduct deep and advanced learning on topics in pure and applied mathematics, empowering the students to do research.
PSO-6	Create the proficiency for the preparation of National level Competitive Examination

DEPARTMENT OF PHYSICS

PROGRAMME SPECIFIC OUTCOMES (PSO) – B.SC PHYSICS

PSO No	On completion of this programme, the students will be able to
PSO-1	Understand the core knowledge in Physics, including the major premises of Classical Mechanics, Electricity and Magnetism and Modern Physics.
PSO-2	Develop proficiency in mathematics derivatives and the mathematical concepts needed for a proper understanding of Physics.
PSO-3	Apply advanced tools, equipments and laboratory skills in Physics experiments draw logical conclusions and interpret the results into a research report.
PSO-4	Enhance their oral and written scientific communication, and will prove that they can think critically and work independently.
PSO-5	Adapt physics concepts to solve simple problems in electronic devices and perform jobs in the relevant field.
PSO-6	Establish themselves in research and technology through mini project, projects, working models, demonstrations, etc.,

PROGRAMME SPECIFIC OUTCOMES (PSO) – M.SC PHYSICS

PSO No	On completion of this programme, the students will be able to
PSO-1	Articulate fundamental and advance concepts, principles and processes underlying physical phenomena in different branches of physical sciences.
PSO-2	Perform the calculations in theoretical physics using qualitative and quantitative reasoning including sophisticated mathematical techniques.
PSO-3	Comprehend, design and construct electronic circuits, Develop the experimental and data analysis skills through a wide range of lab experiments.
PSO-4	Analyze and interpret data collected using appropriate methods, including the use of suitable software and customized worksheets, and relating the conclusions to relevant theories of physics
PSO-5	Conduct independent study to discover and review research articles, select a research topic, strategize, execute and report findings for research projects.
PSO-6	Evaluate the role of Physics in enhancing the life of the people and involve in community building activities.

DEPARTMENT OF CHEMISTRY
PROGRAMME SPECIFIC OUTCOMES (PSO) – B.SC CHEMISTRY

PSO No	On completion of this programme, the students will be able to
PSO-1	Understand the fundamental concepts in Organic, Inorganic, Physical, Theoretical, Nano, Bioinorganic, Polymer and Forensic Chemistry.
PSO-2	Identify and Estimate the component of organic and Inorganic chemical using classical and modern methods, and to determine the physical properties of compounds.
PSO-3	Predict the structures of compounds, separate and characterize them and understand the mechanism of reactions of chemical compounds and their synthesis through Practical & Project.
PSO-4	Apply chemical techniques relevant to academia and industry, generic skills and global competencies to complete the competitive World
PSO-5	Demonstrate importance of Advanced Material, pharmaceutical Drug and polymer material and Devise chemical processes with Green approach in Society needs.
PSO-6	Develop problem solving abilities for successful career in pharmaceuticals, chemical industry, teaching, research, environmental monitoring, product quality, consumer goods industry, food products, cosmetics industry etc.

PROGRAMME SPECIFIC OUTCOMES (PSO) – M.SC CHEMISTRY

PSO No	On completion of this programme, the students will be able to
PSO-1	Understand the specialized chemical reactions and their mechanisms to design new synthetic pathway.
PSO-2	Design and synthesize new compounds, which have potential applications in Industry and Medicine.
PSO-3	Carry out experiments and analysis in the area of organic analysis, estimation, separation, inorganic semi micro analysis.
PSO-4	Deduce the structure of compounds using various characterization techniques
PSO-5	Acquire to synthesize, separate and characterize compounds using laboratory and instrumentation techniques.
PSO-6	Build new research oriented skills to maintain their competence and to allow them to contribute to the advancement of knowledge
PSO-7	Adopt to qualify in competitive exams and developed theoretical and become successful career in chemistry.

DEPARTMENT OF BIOCHEMISTRY

PROGRAMME SPECIFIC OUTCOMES (PSO) – B.SC BIOCHEMISTRY

PSO No.	On completion of this programme, students will be able to
PSO-1	Understand fundamental principles and concepts of biochemistry, including the structure and function of biomolecules present in living cells.
PSO-2	Acquire proficiency in laboratory techniques commonly used in biochemistry, including cell biology, chromatography, spectroscopy, biochemical analysis etc.,
PSO-3	Inculcate the basic concepts of Biochemistry, fundamental biochemical Principles and their applications in a systematic, methodological and scientific, evidence-based process.
PSO-4	Relate the applications of biochemistry in biotechnology and pharmaceutical industries, including the development of new drugs and biotechnological processes in securing a successful career and pursue higher studies.
PSO-5	Communicate scientific ideas and findings effectively through written reports, oral presentations, and other forms of scientific communication.
PSO-6	Develop problem solving and analytical skills through case studies, research projects, experimentation, internship, experiential learning and hands-on-experience.

PROGRAMME SPECIFIC OUTCOMES (PSO) – M.SC BIOCHEMISTRY

PSO No.	On completion of this programme, students will be able to
PSO-1	Acquire in-depth knowledge in courses like cell biology, enzymology, biotechnology, metabolism, endocrinology, immunology, genetics, genetic engineering and clinical biochemistry.
PSO-2	Detect various disorders and identify the defect in the metabolic pathways and evaluate solutions for metabolic disorders by applying the knowledge of metabolism.
PSO-3	Undertake biochemical experiments using classical and modern instruments of biochemistry & molecular biology, record and interpret the results, draw conclusions.
PSO-4	Explore the leadership skills to manage projects in multidisciplinary and interdisciplinary courses and develop skills beyond the syllabus as an individual to become a successful entrepreneur through PG Service learning.
PSO-5	Instill knowledge and awareness on professional ethics, bioethical and health issues, intellectual property rights and become life-long learner through professional courses such as IPR, biosafety and bioethics
PSO-6	Develop research experience by identifying the problem, analyse, interpret and draw conclusions on social cause through innovative PG project in adherence to ethical standards.

DEPARTMENT OF COMPUTER SCIENCE

PROGRAMME SPECIFIC OUTCOMES (PSO) – B.SC COMPUTER SCIENCE

PSO No.	On completion of this programme, students will be able to
PSO-1	Understand the fundamental principles and theories of computer science, including algorithms, data structures, programming languages, and computer architecture
PSO-2	Create proficiency in multiple programming languages and software development tools to design, implement, and test software solutions
PSO-3	Apply problem-solving skills and critical thinking to analyze and Knowledge for developing server based Languages such asNode.js,PHP,ASP.NET/C#,Python etc.
PSO-4	Analyze the principles of computer security and adhere to ethical and professional standards in computer science, including issues related to intellectual property, privacy, and social responsibility.
PSO-5	Develop software projects in teams to collaborate and demonstrate effective communication and project management skills based on emerging technologies such as cloud Computing, Big data, and Artificial intelligence, Internet of things, and apply them to solve real-world problems.
PSO-6	Demonstrate the ability to learn and adapt to new technologies and tools, and engage in lifelong learning to stay current in the field of computer science.

PROGRAMME SPECIFIC OUTCOMES (PSO) – B.SC INFORMATION TECHNOLOGY

PSO No.	On completion of this programme, students will be able to
PSO-1	Understand and apply fundamental principles of Information Technology, including computer systems, networks, and software development
PSO-2	Acquire analytical and problem solving skills and to develop proficiency in programming languages, database management, and web development to design and implement IT solutions to solve the real world problems
PSO-3	Demonstrate knowledge and skills in areas such as cyber security, data analytics, and cloud computing to ensure the security and efficiency of IT systems and Information sharing and retrieval for the usage of Applications
PSO-4	Apply project management principles and practices to effectively plan, execute, and manage IT projects.
PSO-5	Evaluate the efficiency and effectiveness of different Computational solutions and adhere to ethical and professional standards in information technology,
PSO-6	Design, develop and test software systems for world-wide network of computers to provide solutions to real world problems and engage in lifelong learning in the field of Information Technology

PROGRAMME SPECIFIC OUTCOMES (PSO) – M.SC COMPUTER SCIENCE

PSO No.	On completion of this programme, students will be able to
PSO-1	Understand the advanced computing technology and to develop creative applications and innovative solutions to the complex problems.
PSO-2	Develop strong analytical skills, critical thinking and experimental skills in various programming languages and to conduct independent research and apply advanced research methodologies to investigate and solve complex problems in computer science
PSO-3	Create professional development in the fields of IT to develop effective software solutions needed for the government organizations and industrial areas.
PSO-4	Design and develop advanced software systems, technology skills, and application tools using cutting-edge technologies and programming languages
PSO-5	Apply analytical thinking, programming approaches, and contextual knowledge to address changing societal and technological challenges, while assessing and fulfilling responsibilities relevant to computer science problems.
PSO-6	Investigate Research Gaps, Analyze and Carry out Research in the Specialized/Emerging trends of Computing Technologies and engage in lifelong learning in the field of Computer Science.

PROGRAMME SPECIFIC OUTCOMES (PSO) – BCA

PSO No.	Upon completion of the Programme , the students will be able to
PSO-1	Understand and develop a strong foundation in computer applications concepts, including programming languages, algorithms, computer networks, database management, and software engineering.
PSO-2	Identify the system solutions using suitable computing techniques leading to propulsion towards employability.
PSO-3	Communicate effectively in both technical and non-technical stakeholders and collaborate a team environment and leadership skills, and they will present their ideas, solutions and project outcomes in a clear and concise manner.
PSO- 4	Apply computational methods, proficiency in programming languages and tools for solving real-time Problems.
PSO- 5	Develop professional practices in the field of Computer Applications in adherence to ethical standards.
PSO- 6	Demonstrate the ability to learn and adapt to emerging technologies and tools, and engage in lifelong learning in the field of computer applications.

DEPARTMENT OF PSYCHOLOGY
PROGRAMME SPECIFIC OUTCOMES (PSO) – B.SC PSYCHOLOGY

PSO No.	Upon completion of the Programme , the students will be able to
PSO-1	Identify the major historical frameworks that shaped the development of psychology, including Structuralism, Functionalism, Behaviorism, and Psychoanalysis.
PSO-2	Understand the psychological processes influencing human behavior and develop critical thinking skills enhances one's comprehension of the cognitive mechanisms that shape individuals' actions and reactions.
PSO-3	Apply key psychological concepts, theoretical perspectives, and by carrying out hands-on activities and showcasing how these ideas are applied in real-world situations.
PSO- 4	Analyze the essence of human values by critically examining acts of social commitment, and assess the development of professional ethics and responsibilities.
PSO- 5	Evaluate the behavioral concepts in both laboratory settings and real-life situations.
PSO- 6	Develop and acquire skills in psychological assessment and Progress on the career path of higher studies, psychological services in the community, and research.

DEPARTMENT OF JOURNALISM & MASS COMMUNICATION

PROGRAMME SPECIFIC OUTCOMES (PSO) – BA JMC

PSO No.	Upon completion of the Programme , the students will be able to
PSO-1	Recall the fundamental core concepts, theories, key terminology, historical milestones and practices within journalism and mass communication.
PSO-2	Understand and interpret media content and diverse perspectives critically.
PSO-3	Apply their skills to connect people, ideas, books, media, and technology, thereby contributing to meaningful and impactful communication.
PSO- 4	Examine professional ethics and responsibilities within the field.
PSO- 5	Determine the skills in assessing and enhancing teamwork and collaboration within diverse media environments.
PSO- 6	Generate original and engaging video materials and life-long learning within the ever-evolving socio-technological landscape.

DEPARTMENT OF CLINICAL NUTRITION & DIETETICS

PROGRAMME SPECIFIC OUTCOMES (PSO) – B.SC CND

PSO No.	On completion of this programme, the students will be able to
PSO-1	Acquire knowledge and skills related to the management of food services, including menu planning, food safety, and quality control.
PSO-2	Recognize the importance of continuous learning and professional development in the rapidly evolving field of clinical nutrition and dietetics.
PSO-3	Demonstrate ethical behavior and effective communication skills in interactions with clients, colleagues, and other stakeholders.
PSO-4	Apply research methods to critically evaluate scientific literature and incorporate evidence-based practices into nutritional assessment and intervention.
PSO-5	Assess the nutritional status of individuals across the lifespan using appropriate tools and techniques.

PSO-6	Design and implement therapeutic diet plans for individuals with various health conditions, taking into consideration their medical history, cultural preferences, and lifestyle.

DEPARTMENT OF COSTUME DESIGN & FASHION DESIGN

PROGRAMME SPECIFIC OUTCOMES (PSO) – B.SC CDF

PSO No.	On completion of this programme, the students will be able to
PSO-1	Understand the basic concepts of textile and fashion to adapt to our daily life and the role of costume design and effectively communicate character traits through costume choices.
PSO-2	Demonstrate proficiency in sketching, pattern making, and garment construction techniques, and professionalism, time management, and organizational skills in the execution of costume design projects.
PSO-3	Apply knowledge of historical and cultural influences to create authentic and accurate costumes and managing projects in the areas of design, manufacture, marketing and entrepreneurship in the apparel industry environment.
PSO-4	Utilize various materials, fabrics, and textiles to create innovative and visually appealing designs and empowering women to meet global challenges
PSO-5	Develop skills in costume fitting, alteration, and maintenance to ensure costumes fit properly and withstand the demands of a production in costume design and fashion technology to become a successful fashion designer in a garment industry.
PSO-6	Recognize the importance of continuous learning and adaptability in the ever-evolving field of textile and fashion design, considering technological advancements and skill innovation.

COURSE OUTCOMES – 2022-2023

DEPARTMENT: ENGLISH

Course Code	Course Title	Course Outcome		
UENM516	Popular Literature	CO1	:	Describe the new features of literature
		CO2	:	Understand the changing trends in English literature
		CO3	:	Appreciate the works in literature from the point of view of the refugees
		CO4	:	Analyze the popular works in literature.
		CO5	:	Formulate new trends in popular literature
UENM517	Australian and Canadian Literature	CO1	:	Recall the effects of colonization in Australian and Canadian literature.
		CO2	:	Understand the familiar Australian literary works from the early nineteenth century to the present.
		CO3	:	Distinguish theoretical approaches to literature and race, sexuality and cultural difference.
		CO4	:	Analyze Australian and Canadian literature in relation toother literature.
		CO5	:	Describe the various methods and technique used by the critics.
UENM518	Literary Criticism	CO1	:	Explain the traditional framework of literary criticism.
		CO2	:	Illustrate the analysis of literary text
		CO3	:	Differentiate the function and practice of different literary methodologies.
		CO4	:	Evaluate the literature in accordance with race, sexuality and cultural difference
		CO5	:	Describe the various methods and technique used by the critics.
UENO501/ UENO502	Detective Fiction / World Classics in Translation	CO1	:	Understand the historical and social events in the fiction
		CO2	:	Describe the structure of detective stories in reference with the historical events
		CO3	:	Differentiate the different plots and techniques used by authors
		CO4	:	Demonstrate the depiction of law and legal system in literature
		CO5	:	Develop the habit of investigating and problem solving skills
UENM614	Introduction to Feminism	CO1	:	Understand the significance of feministic movements.

		CO2	:	Apply themes, and narrative strategies of women writers
		CO3	:	Analyze the patterns and concepts of feministic literature
		CO4	:	Interpret the writings and its significance in feminist movements.
		CO5	:	Empower themselves to integrate feminist principles into daily lives and foster leadership skills.
UENM615	Asian Literature in English	CO1	:	Recognize the major figures, institutions and events in the history of Asia and explain their historical significance.
		CO2	:	Identify the various culture and traditions of Asian Literature.
		CO3	:	Analyze the diasporic elements in Asian Literary text.
		CO4	:	Compare the literary, artistic and cultural achievements of Asian writers and produce own text.
		CO5	:	Construct the impact of post colonialism employed in the text.
UENM616	Diasporic Literature	CO1	:	Understand the definition and scope of Diaspora Literature.
		CO2	:	Apply the theoretical backgrounds of international migration, race, and ethnicity.
		CO3	:	Compare the sources of literature on Indian Diaspora, review them and apply to their research topic.
		CO4	:	Criticize the various issues of identity of Indians in the Diaspora and how they negotiate that identity in their everyday life.
		CO5	:	Create the Socio-Cultural an historical knowledge of Diaspora.
UENM618	Women's Life Writing	CO1	:	Interpret the women achievers and their literary works.
		CO2	:	Construct cultural, Inter-cultural and trans-historical concerns relating to women's life writing.
		CO3	:	Analyze the barriers of women and their effort to come forward in their life.
		CO4	:	Determine the complex interrelationships between the real situation and feminist concepts.
		CO5	:	Develop the social assumptions regarding gender, race, class, nationality, disability, age and sexual orientation.
UENO605/	Creative Writing/	CO1	:	Illustrate the distinctive features of

606	English for Competitive Exams			creativity.
		CO2	:	Develop various literary and social media writings.
		CO3	:	Examine the various skills in creative writing.
		CO4	:	Prioritize the importance of reading as a part of creative writer's development.
		CO5	:	Compose the fundamentals of creative writing and produce own text like Blogs, Articles, Journals, Magazines, Novels and Stories
UENO605/ 606	Creative Writing/ English for Competitive Exams	CO1	:	Understand the basic Literary Techniques.
		CO2	:	Interpret the literary text based on critical concepts.
		CO3	:	Analyze the text in the broader sense.
		CO4	:	Defend the scope of comparative literature into wider perspectives.
		CO5	:	Develop the scope for research in the context of Comparative study

DEPARTMENT: BUSINESS ADMINISTRATION

Course Code	Course Title	Course Outcome		
UBAM507	Research Methodology in Business	CO1	:	Identify the overall process of designing a research study from its Inception to its report.
		CO2	:	Apply a range of quantitative and / or qualitative research techniques to business and management problems / issues.
		CO3	:	Analyze the research problem stated in a study.
		CO4	:	Evaluate the independent, dependent, and mediating variables in a study.
		CO5	:	Develop necessary critical thinking skills in order to evaluate different research approaches utilized in the service industries
UBAM508	Services Marketing	CO1	:	Describe the nature and scope of services marketing
		CO2	:	Apply relevant services marketing theory, research and analysis skills to contemporary case studies and communicate outcomes employing

				professional discourse and formats.
		CO3	:	Analyze the role and relevance of quality in services
		CO4	:	Evaluate the integrative knowledge of marketing issues associated with service productivity, perceived quality, customer satisfaction and loyalty
		CO5	:	Develop and justify marketing planning and control systems appropriate to service-based activities
UBAM510	Stress Management	CO1	:	Describe the nature of stress, the stress response, causes of stress, the relationship between stress and disease and a holistic approach to stress managements.
		CO2	:	Analyze the impact of stress on one's own body, mind, spirit and emotions.
		CO3	:	Practice research-based coping strategies and relaxation techniques that contribute to managing life's stress
		CO4	:	Develop a personal lifestyle plan incorporating with coping strategies and relaxation techniques to decrease the impact of stress on one's body, mind, spirit and emotions.
		CO5	:	Develop a long term action plan to minimize and better manage stress
UBAM504/ UCOM507/ UCCM507	Management Accounting	CO1	:	Explain the significance of basic concept, importance & Functions of Management Accounting
		CO2	:	Apply different types of activity-based management accounting tools through the preparation of estimates.
		CO3	:	Demonstrate knowledge of various advanced accounting issues related to Financial Accounting within a global and or ethical framework.
		CO4	:	Analyze the relationship between the cost-volume and profit.
		CO5	:	Evaluate the cost-volume-profit techniques to determine optimal managerial decisions
UBAO501	Total Quality Management	CO1	:	Describe the dimensional barrier regarding Quality.
		CO2	:	Understand the total quality principles.
		CO3	:	Demonstrate the tools for utilizing the quality improvement.
		CO4	:	Identify requirements of quality

				improvement programs.
		CO5	:	Apply the various quality systems for implementing total quality management.
UBAO502	Corporate Governance	CO1	:	Understanding the purpose and nature of corporations.
		CO2	:	Examine the different stakeholders' roles and significance in relation to corporate governance.
		CO3	:	Understand the importance of regulation, markets and information in corporate governance.
		CO4	:	Analyze the international differences and similarities for the development of institution.
		CO5	:	Critically analyze the governance for individual corporations and their stakeholders.
UBAM608	Strategic Management	CO1	:	Understand and recall the fundamental concepts and process of strategic management.
		CO2	:	Apply the strategic management process and various tasks of Strategic Management for formulating the new strategies based on the case studies.
		CO3	:	Examine the management of the entire enterprise from the Top Management viewpoints.
		CO4	:	Evaluate the holistic strategies addressing both internal and external factors.
		CO5	:	Evolve a new strategic plan towards the measuring performance.
UCOM619 UCCM619 UBAM615	Financial Management	CO1	:	Recall and interpret the various financial concepts relating to time value of money, cost of capital, capital structure, capital budgeting, Working capital management and dividend decision.
		CO2	:	Build a thorough knowledge of relevant accounting concepts to prepare financial return.

		CO3	:	Analyze and carryout the various accounting treatments relating to Financial Management discipline.
		CO4	:	Judge the risk investment pattern and rate of return.
		CO5	:	Design a plan for optimum rate of return
UBAM612	Entrepreneurial Development	CO1	:	Define key concepts and explain the importance of entrepreneurship and the role of innovation.
		CO2	:	Identify the entrepreneurial process and the success factors.
		CO3	:	Simplify the business opportunities, considerations, social and environmental entrepreneurship.
		CO4	:	Evaluate the effectiveness of different entrepreneurial programs.
		CO5	:	Design a comprehensive entrepreneurial strategy and critically reflect on entrepreneurial experiences.
UBAM613	Global Business in Management	CO1	:	Acquire the basic knowledge on various national physical environment and its impact on international business.
		CO2	:	Apply the current business phenomenon in terms of economic, social and legal aspects of global business environment.
		CO3	:	Analyze the principle of international business and strategies adopted by firms to expand globally.
		CO4	:	Evaluate global business risks and assess the ethical considerations in global business practices.
		CO5	:	Formulate the effective use of world resources with social, cultural and ethical background.
UBAO609	Consumer Affairs	CO1	:	Recall and understand the concepts such as terms and conditions, product specifications, and consumer rights.
		CO2	:	Apply the consumer knowledge by making informed decisions, comparing products, and instructions for product use.
		CO3	:	Analyze the various perspectives and interpret the collected information to make informed judgments about the overall value and suitability of the

				offerings.
		CO4	:	Assess available options by carefully weighing their needs, preferences, and ethical considerations.
		CO5	:	Create strategies for budgeting, planning purchases, or advocating for consumer rights
UBAO604	Customer Relationship	CO1	:	Recall and comprehend the importance of cultivating effective and efficient customer relationship abilities.
		CO2	:	Discuss the different types of Consumer-brand relations and how to strengthen relations with valued customers.
		CO3	:	Analyze the CRM for critically assessing the insights derived from understanding customers.
		CO4	:	Assess the different CRM models in service industry.
		CO5	:	Evolve innovative strategies and implement customized CRM solutions to enhance customer experiences, foster guest loyalty, and optimize operational processes.
UBAO606	Operation Management	CO1	:	Recall the fundamental concepts in operations management and understand process analysis techniques, operational components, and forecasting methods.
		CO2	:	Apply decision analysis tools to make informed decisions in operations management
		CO3	:	Examine the elements of operations transformation processes to enhance productivity and competitiveness.
		CO4	:	Evaluate quality management systems, inventory strategies, and sustainable operations practices.
		CO5	:	Develop skills to operate competitively in the current business scenario.
UBAO607	Consumer Protection	CO1	:	Recall and understand the basic information about their rights on consumer protection.
		CO2	:	Apply the knowledge of consumer protection principles in real- world situations.
		CO3	:	Analyze the information about products, services, and businesses to evaluate their

				compliance with consumer protection standards.
		CO4	:	Evaluate the effectiveness of consumer protection measures and advocate for improvements.
		CO5	:	Develop innovative solutions that contribute to the advancement of consumer protection.

DEPARTMENT: COMMERCE

Course Code	Course Title	Course Outcome		
UCOM50/ UCCM50/ UIAM501	Company Law	CO1	:	Identify different kinds of companies
		CO2	:	Apply the knowledge of company law for preparing registration documents.
		CO3	:	Explain the ability to manage issue and transfer of shares.
		CO4	:	Summaries the procedure for issues of shares.
		CO5	:	Write the agenda of the company meetings
UCOO502	Commodities Market/ Human Resource Management	CO1	:	Explain the determinants of price of commodity markets
		CO2	:	Apply the principles of commodity markets to trade.
		CO3	:	Examine clearing settlement and delivery process
		CO4	:	Appraise the characteristics of commodity trading
		CO5	:	Discuss the functions of commodity exchanges
UCOM509/ UCCM509 UIAM503	Income Tax Law & Practice I	CO1	:	Identify the head-wise taxable income
		CO2	:	Apply income tax provisions for tax planning.
		CO3	:	Acquire knowledge on canons of taxation.
		CO4	:	Explain the head-wise deductions allowed.
		CO5	:	Examine the allowed and disallowed business expenses.
UCOM512	Accounting Package-Theory	CO1	:	Explain the various kinds of stock groups in Tally
		CO2	:	Apply the knowledge in creating vouchers
		CO3	:	Examine the ability to prepare final accounts .
		CO4	:	Discuss the importance of computerized

				accounting.
		CO5	:	Acquire knowledge on the creation of cost Centre
UCOR50/ UCCR50/ UIAR502	Accounting Package – Lab	CO1	:	Explain the various kinds of stock groups in Tally
		CO2	:	Apply the knowledge in creating vouchers
		CO3	:	Examine the ability to prepare final accounts.
		CO4	:	Discuss the importance of computerized accounting.
		CO5	:	Compute GST Liability and prepare GST Return in Tally
UCOP501/ UCCP501/ UIAP501/ UCOM51/ UCCM511/ UIAM511	Project/Principles and Practice of Insurance	CO1	:	Evaluate the growth of Insurance business in India
		CO2	:	Apply the knowledge to protect themselves from the business risk
		CO3	:	Examine the knowledge to protect them selves from the personal risk.
		CO4	:	Appraise marine and fire insurance
		CO5	:	Discuss the importance of life and general insurance
UCID601	Women Entrepreneurship	CO1	:	Understand and demonstrate the concepts of women entrepreneurship
		CO2	:	Apply the statutory regulations and legal framework in women entrepreneurship
		CO3	:	Classify the various function of entrepreneurs and examine its scope
		CO4	:	Evaluate the changing environment and adapt to emerging Social Responsibility
		CO5	:	Develop innovative products in adherence to entrepreneurial strategies and become a successful women entrepreneur.
UCOM619/ UCCM619/ UBAM610	Financial Management	CO1	:	Recall and summarize the various financial concepts relating to time value of money, cost of capital, capital structure, capital budgeting, working capital management and dividend decision.
		CO2	:	Choose a relevant accounting concept to prepare financial return.
		CO3	:	Analyze and carryout the various accounting treatments relating to Financial Management discipline.
		CO4	:	Judge the risk investment pattern and rate of return.

		CO5	:	Design a plan for optimum rate of return.
UCOR618/ UCCR618/ UIAR603	Industry Interface Programme III - GST Practical	CO1	:	Understand and relate the knowledge of GST rules in Tax planning.
		CO2	:	Develop working knowledge on GST and application of the same in the organizations.
		CO3	:	Analyze GST liability and File returns
		CO4	:	Evaluate GST Computation for enterprise
		CO5	:	Design e-way bill through tally prime
UCOM616/ UCCM616/ UIAM604	Goods and Services Tax	CO1	:	Define and illustrate the concepts of GST Policy and relate the procedures.
		CO2	:	Apply the GST principles in Tax Planning.
		CO3	:	Compare the various types of GST and categorize the file returns on GST.
		CO4	:	Appraise the benefits of GST, justify the offences and penalties in GST.
		CO5	:	Compile the GST rule according to Indian Tax System.
UCOM617/ UCCM617/ UIAM605	Service Marketing	CO1	:	Outline the concepts of service and classify the different types of service marketing.
		CO2	:	Choose the service marketing mix for different services.
		CO3	:	Classify the different financial services available in India.
		CO4	:	Justify the benefits of various services in India.
		CO5	:	Adapt the CRM strategies to present scenario.
UCOO609/ UCCO609/ UIAO608	Advertising and personalselling	CO1	:	Understand the concepts of advertising and personal selling.
		CO2	:	Apply the concepts for the creation of an advertising campaign.
		CO3	:	Classify the selections of advertising agencies.
		CO4	:	Identify and examine the reasons for having advertising agencies.
		CO5	:	Design an advertising campaign consistent with the goals of an organization..

COURSE OUTCOMES – 2022-2023

DEPARTMENT: MATHEMATICS

Course Code	Course Title	Course Outcome		
UMAM507	Modern Algebra	CO1	:	Recognize groups and its classifications.
		CO2	:	Classify the groups and normal subgroups
		CO3	:	Use theorems to solve problems in Permutation groups.
		CO4	:	Describe the concept of ideals, Maximal, prime ideals and homomorphism of rings
		CO5	:	Write the abstract mathematical proofs in a clear and logical manner.
UMAM514	Real Analysis I	CO1	:	Recall real valued function, sequence.
		CO2	:	Recognize Convergent sequence and Divergence sequence, Bounded sequence, Monotone sequence and Cauchy sequence.
		CO3	:	Analyze the series of Real numbers.
		CO4	:	Explain limits, metric space and continuous function on a real line.
		CO5	:	Examine open sets and closed sets
UMAM515	Numerical Methods	CO1	:	Understand numerical methods and how they are used to obtain approximate solutions.
		CO2	:	Apply various interpolation methods.
		CO3	:	Work out numerical differentiation and integration.
		CO4	:	Analyze numerical methods to find out solution of algebraic equations using different methods
		CO5	:	Solve Numerical Solutions and ordinary Differential Equations.
UMAO501	Graph Theory	CO1	:	Understand the concepts of graph theory as an application of mathematics in information technology
		CO2	:	Recall and relate connectivity.
		CO3	:	Recognize the characteristics of Eulerian Graphs
		CO4	:	Analyze Characterization of Planar graphs
		CO5	:	Create special directed graphs and its properties for research purpose.
UMAO502	Number Theory	CO1	:	Recall and relate number theory and its theorems.

		CO2	:	Recognize the basic concepts of arithmetic functions.
		CO3	:	Express the concept and results of Lioville"s function.
		CO4	:	Apply numerical data to form Congruence's about the integers
		CO5	:	Construct Mathematical Proofs using Gauss Law
UMAM616	Linear Algebra	CO1	:	Recall and define the elementary concepts related to vector spaces, dual spaces and its relevance in linear algebra.
		CO2	:	Develop the knowledge of Hermitian, unitary, and normal transformations to solve mathematical problems.
		CO3	:	Compare and Classify the matrix representations of linear transformations.
		CO4	:	Justify the matrix representing in unitary and normal transformation.
		CO5	:	Find out the solutions for the problems involved in linear transformations and specialized transformations.
UMAM615	Real Analysis II	CO1	:	Relate and Summarize the definitions and properties of open sets, closed set and boundedness.
		CO2	:	Solve the mathematical problems using Riemann integrals.
		CO3	:	Categorize connectedness, boundedness, and total boundedness in different metric spaces.
		CO4	:	Criticize the convergence of sequences and series of functions.
		CO5	:	Develop the mathematical proofs of basic results in real analysis.
UMAM617	Complex Analysis	CO1	:	Define the functions of complex variable, mappings and Illustrate the concept of simply and multiply connected domains.
		CO2	:	Solve the Maximum Modulus principle, continuity, integration, and differentiation of power series.
		CO3	:	Examine the Isolated Singular Points and Residue at Poles.
		CO4	:	Evaluate the Linear Transformation and Mappings.
		CO5	:	Modify complex transforms creatively in solving mathematical problems.
UMAM618	Operation research	CO1	:	Define and Classify the fundamental

				concepts in operations research, including linear programming, transportation and assignment problems, sequencing problems, game theory, queuing Theory, and PERT/CPM.
		CO2	:	Apply mathematical methods to solve real-world problems in operations research.
		CO3	:	Simplify the different strategies and techniques in queuing theory, sequencing, and game theory.
		CO4	:	Deduct the applicability of different methods in various scenarios.
		CO5	:	Develop the solutions for complex problems in operations research.
UMAO608	Mathematical Modeling	CO1	:	Understand & Recall the fundamental concepts in modeling using ordinary differential equations, population dynamics, planetary motion, difference equations, and graphs.
		CO2	:	Identify the mathematical modeling techniques to solve real-world problems.
		CO3	:	Classify the different models and approaches in diverse scenarios.
		CO4	:	Justify the effectiveness and limitations of various modeling techniques.
		CO5	:	Design the mathematical models for complex problems in different fields.
UMAO606	Mathematics for Construction Craft	CO1	:	Recall and Summarize the fundamental concepts in construction mathematics, including unit conversion, transposition of formulas, area and volume calculations.
		CO2	:	Build mathematical concepts to solve practical problems in construction.
		CO3	:	Survey the construction materials, costs, and structural elements.
		CO4	:	Interpret the effectiveness of mathematical techniques in construction projects.
		CO5	:	Create and Formulate solutions for setting out and construction scenarios.
UMAO609	Astronomy	CO1	:	Define and compare fundamental concepts in celestial mechanics, including the celestial sphere, diurnal motion, zones of the Earth, twilight,astronomical refraction,

				Kepler's Laws, and eclipses.
		CO2	:	Construct the problems related to celestial phenomena.
		CO3	:	Discover the characteristics of celestial events and motions.
		CO4	:	Explain the applicability of celestial principles in practical scenarios.
		CO5	:	Discuss the explanations for celestial phenomena, including eclipses and planetary motion.

DEPARTMENT: CHEMISTRY

Course Code	Course Title	Course Outcome		
UCHM510	Inorganic Chemistry – II	CO1	:	Understand the synthesis and structure of organometallic compounds
		CO2	:	Understand the classification, preparation, properties and uses of binary and organometallic compounds
		CO3	:	Comprehend the theories, crystal defects and semi-conducting nature of metallic state substances.
		CO4	:	Acquires the basic concepts of nuclear chemistry, radioactivity and nuclear transformations.
		CO5	:	Applying the knowledge of gravimetric and precipitation techniques in the chemical industries.
UCHM511	Organic Chemistry – II	CO1	:	Understands the knowledge of reaction mechanisms of nitro and carbonyl compounds.
		CO2	:	Acquires the knowledge of preparation, properties and applications of alcohols, phenols, thiols and ethers.
		CO3	:	Analyze the metal and poly nuclear carbonyl complex
		CO4	:	Classifies and elucidates the structure,

				properties and uses of carbohydrates.
		CO5	:	Assemble the reaction mechanism of different heterocyclic compounds
UCHM512	Physical Chemistry – II	CO1	:	Understand the concepts of thermodynamics
		CO2	:	Explain and apply concepts of physical chemistry
		CO3	:	Apply it to more space physical and chemical system
		CO4	:	Know the concepts of chemical kinetics
		CO5	:	Evaluate the concepts of kinetics to different processes
UCHO501	Organometallics and Bio inorganic chemistry	CO1	:	Understand the synthesis and structure of organometallic compounds
		CO2	:	Demonstrate the metallocene compound
		CO3	:	Analyze the metal and polynuclear carbonyl complex
		CO4	:	Evaluate and apply knowledge of element use in biological system
		CO5	:	Design the structure and function of hemoglobin and myoglobin
UCHO502	Heterocyclic Chemistry	CO1	:	Understand the importance, properties, synthesis and applications of various Nitrogen- functional groups
		CO2	:	Ability to learn and carry out the structure, synthesis, reactivity of important heterocyclic compounds and polycyclic aromatic hydrocarbons.
		CO3	:	Identify and classify different types of N-based derivatives
		CO4	:	Evaluate the different classes of N-based naturally occurring important alkaloid and torpedoed compounds, their structures, synthesis andreactivity
		CO5	:	Assemble the reaction mechanism of different heterocyclic compounds, as well as natural alkaloid and torpedoed molecules
UCHR501	Gravimetric Analysis	CO1	:	summarize findings in writing in a clear and concise manner
		CO2	:	Analyze the techniques involved in volumetric chemical analysis with emphasis on solution
		CO3	:	engage in safe laboratory practices handling laboratory glassware, equipment, and chemical reagents
		CO4	:	Understand the basics of gravimetric analysis

		CO5	:	Evaluate data collected to determine the identity, purity, andyield of products.
UCHR605	Physical Chemistry Practical	CO1	:	Define the practical knowledge about the chemical kinetics
		CO2	:	Understand the conductivity experiments
		CO3	:	Apply potentiometric titrations in identification of acids
		CO4	:	Analyze the experimental data
		CO5	:	Develop the partition co-efficient of new compounds in a mixture of two immiscible solvents
UCHM614	Inorganic Chemistry - III	CO1	:	Classify the HSAB, Arrhenius, Pearson's concept and bioinorganic compounds
		CO2	:	Interpret the ligands, Chelation and f block elements
		CO3	:	Illustrate the stability of complexes in coordination chemistry and factors affecting the nucleophilic substitution
		CO4	:	Criticize the inter halogen compounds and comparative study of lanthanides and actinides, prioritize Chlorophyll, hemoglobin and vitamin b_{12} based on the structure and applications
		CO5	:	Elaborate the importance of bioinorganic compounds and their properties. Calculation of CFSE in Oh & Td complex.
UCHM615	Organic Chemistry-III	CO1	:	Acquires the cognizance about Anionotropic , cat ionotropic, Inter and intra molecular rearrangements
		CO2	:	Justify the Six membered heterocyclic systems and fused rings
		CO3	:	Devise the knowledge of citral, Geraniol - Terpenol and Camphor compounds
		CO4	:	Prioritize the constituents of nucleic acid and Grignard reagent
		CO5	:	Compare and contrast the aromatic characteristics and basicity for heterocyclic compounds.
UCHM616	Physical Chemistry-III	CO1	:	Define an expression for photo-physical processes and the concentrations of solution
		CO2	:	Relate the Raoult's law, Cottrell method and osmatic pressure.

		CO3	:	Point out and determine the solubility of highly soluble gases in ideal system
		CO4	:	Analyze the Group multiplication table, Great Orthogonality Theorem and Point groups.
		CO5	:	Design the various methods to prepare the colloidal particles
UCHM617	Advanced Material Chemistry	CO1	:	List out the material characterization and recognize their applications for composites
		CO2	:	Justify the functionality of polymeric materials and the preparation of nanomaterials
		CO3	:	Categories the metals, ceramics, polymers, and composites
		CO4	:	Develop the techniques in industrial polymers preparations by polymerization method
		CO5	:	Choose the characterization techniques for advanced materials
UCHO602	Polymer Chemistry	CO1	:	Define the polymers, die casting and calendaring process
		CO2	:	Understand the thermal degradation and the molecular mass of polymers, Mn and Mw
		CO3	:	Apply the processing techniques for compression molding and blow molding
		CO4	:	Criticize the natural, synthetic rubber and the mechanism of chain growth polymerization.
		CO5	:	Create a method to prepare the raw materials for industrial polymers
UCHO603	Medicinal Chemistry	CO1	:	Naming the drugs and outline the medicinal chemistry
		CO2	:	Summarize the antibiotics, antipyretics, and analgesics properties
		CO3	:	Classify the analgesics morphines and action of drugs
		CO4	:	Estimate the procaine hydrochloride, indolyl derivatives and p-amino phenol derivatives
		CO5	:	Determine the hydrophobicity, electronic effect, steric effects of antibiotics
UCHO604	Forensic Chemistry	CO1	:	Identify the contaminations of food, and detecting forgery in bank cheques
		CO2	:	Summarize the blood DNA finger printing for tissue identification

		CO3	:	Examine the drunken driving in the transportation and use of neutron activation analysis
		CO4	:	Specify the blood stains on clothing in crime detection
		CO5	:	Design the detecting poisoning and matching using computer records
UCHR605	Physical Chemistry Practical	CO1	:	Define the practical knowledge about the chemical kinetics
		CO2	:	Understand the conductivity experiments
		CO3	:	Apply potentiometric titrations in identification of acids
		CO4	:	Analyze the experimental data from the Calorimetric titration
		CO5	:	Develop the partition co-efficient of new compounds in a mixture of two immiscible solvents
UCHR606	Organic Analysis and Preparation	CO1	:	Understanding of the basic principles of qualitative organic analysis
		CO2	:	Classify the organic preparation
		CO3	:	Identify the Special element and functional group in organic compound
		CO4	:	Analyze the various experimental method
		CO5	:	Create the new method to preparation of organic compound

COURSE OUTCOMES – 2022-2023

DEPARTMENT: BIOCHEMISTRY

Course Code	Course Title	Course Outcome		
UBCM507	Enzymology	CO1	:	Summarize the fundamental concept of enzymes and their importance in biological reactions.
		CO2	:	Explain the factors that affect enzyme activity and the rate of Biochemical reaction.
		CO3	:	Differentiate the chemical catalyst and the biocatalyst.
		CO4	:	Classify the different types of inhibitors and its role.
		CO5	:	Integrate the applications of enzymes in disease, diagnosis and therapeutic measures.
UBCM508	Intermediary Metabolism	CO1	:	Describe the importance of high energy compounds, electron transport chain and synthesis of ATP under aerobic and anaerobic conditions.
		CO2	:	Summarize the various metabolic pathways of carbohydrate.
		CO3	:	Illustrate the anabolic and catabolic pathways of lipids.
		CO4	:	Explain the catabolism of amino acids into specialized products and the reactions of urea cycle.
		CO5	:	Differentiate the biosynthesis and degradation of nucleic acids.
UBCM509	Human Physiology	CO1	:	Explain the components of blood, blood grouping & cardio vascular system.
		CO2	:	Illustrate the mechanism of digestion, absorption of macromolecules and explain urine formation.
		CO3	:	Describe the process of gaseous exchange in tissues and lungs, respiratory adaption to high altitude.
		CO4	:	Measure and give results for identifying the physiological functions.
		CO5	:	Determine the mechanism of contraction and relaxation of muscles.
UBCO501	Nutritional Biochemistry	CO1	:	Define the fundamental concept in food and nutrition.
		CO2	:	Summarize the nutritional significance of

				macromolecule.
		CO3	:	Illustrate the importance of Vitamin & Minerals in day to day life.
		CO4	:	Analyze nutrition-related conditions and prepare balanced diet.
		CO5	:	Express the community nutrition and role of national institutions.
UBCO502	Stem Cell Biology	CO1	:	Define the characterizes of a stem cell
		CO2	:	List and compare the different types of stem cells
		CO3	:	explain stem cell differentiation in vivo and in vitro
		CO4	:	Describe the methods of stem cell culture
		CO5	:	Enumerate the role of human embryonic stem cell research.
UBCR501	Enzymology Practical	CO1	:	Identify the influence of enzyme structure on catalytic properties.
		CO2	:	Explain the factors influencing the enzyme activity.
		CO3	:	Analyze the action of enzymes as biocatalysts and in factors that influence enzyme activity.
		CO4	:	Estimate the activity of enzymes of salivary amylase, urease, ALT, AST and ALP
		CO5	:	Produce the results on enzyme activity for their own biological specimens.
UBCM605	Introduction to Biotechnology	CO1	:	Understand and recall rDNA technologies, gene transfer mechanisms, plant hormones and transgenic animals in tissue culture, and molecular biology techniques.
		CO2	:	Identify types of strains used in cloning vectors, various methods for gene transfer, transgenic plants and animals based on different types of techniques
		CO3	:	Analyze the modifying enzymes, gene transfer mechanism, plant hormone development, cell culture techniques and applications of biological techniques
		CO4	:	Interpret strategies of cloning vectors, transformation of genes in plant and animals.
		CO5	:	Combine various gene techniques for transferring plant and animal tissues to create genetically modified organisms through project.

UBCM606	Clinical Biochemistry	CO1	:	Understand the importance of clinical laboratory, metabolic complications of carbohydrate, amino acid, lipids and various diagnostic methods
		CO2	:	Identify the uses of clinical laboratory instruments, and complications arise during carbohydrate, lipid and amino acid metabolism
		CO3	:	Analyze various biological specimen glucose, lipid and amino acid metabolic disorders
		CO4	:	Explain safety regulations first aid, disposal of various biological specimen used in clinical laboratory and complication of biomolecule metabolic disorder and clinical manifestation renal hepatic and pancreatic functions.
		CO5	:	Develop the eligibility skills for clinical biochemistry and predict clinical features of various metabolic disorders and assess renal hepatic and pancreatic functions test.
UBCM607	Molecular Biology	CO1	:	Define genetic code and explain the mechanism of protein synthesis and protein processing.
		CO2	:	Describe the principles of gene expression, mechanism of transcription and post translational modification.
		CO3	:	Illustrate and apply the concepts of DNA Replication & DNA repairs.
		CO4	:	Analyze coding and non coding regions in prokaryotes and explain the types of mutation, relationship between the mutation and genetic disorders.
		CO5	:	Evaluate and discuss the steps involved in regulation of gene expression for a given illustration.
UBCR601	Clinical Biochemistry practical	CO1	:	Choose Commonly used Laboratory Apparatus, Equipment, and Identify Good Safe Laboratory Practice.
		CO2	:	Apply the Concentration of Normal and Abnormal Constituents of Blood using Suitable Colorimetric Method
		CO3	:	Analyze and Interpret Investigative Data.

		CO4	:	Evaluate the Clinical Findings Under Given Set of Parameters for the Assessment of Nature of Disease.
		CO5	:	Explain the Significance of their Variations and their Role in Diagnosing Diseases.
UBCR602	Hematology & Urine analysis	CO1	:	Find & Interpret the RBC and WBC Count Using Suitable Method in Accordance to Normal Values.
		CO2	:	Identify the Amount of Hemoglobin, CV and ESR Present in the Given Blood Sample.
		CO3	:	Analyze the Normal and Abnormal Constituents of Urine.
		CO4	:	Evaluate Laboratory Values from Routine Blood and Urine Examination to Identify the Pathogenic State.
		CO5	:	Explain & Acquire Competent Skills in the Performance of Routine Biochemistry Laboratory Testing.
UBCO607	Molecular Endocrinology	CO1	:	Understand the Human physiology related to Endocrinology –Mechanism of action of different hormones – Peptide hormones and steroids, Genetic control of hormonogenesis
		CO2	:	Identify, how Pituitary hormones are Synthesized, Secreted, Regulated and Provoke the Biological Effects with its Disorders
		CO3	:	Analyze the molecular genetics related to endocrine system
		CO4	:	Explain about the disorders affecting the metabolism of carbohydrate and lipids.
		CO5	:	Evaluate the current research on hormone replacement therapy and its impact on post menopausal women's health.
UBCO606	Pathobiology of Human Diseases and Disorders	CO1	:	Recall and understand the major causative factors of diseases and disorders.
		CO2	:	Differentiate and summarize the commonly occurring diseases based on the pathological condition.
		CO3	:	Relate the abnormalities with normal physiologic functions of all body systems.
		CO4	:	Analyze the etiology, signs, and symptoms of diseases of all body systems.

		CO5	:	Correlate the Prognosis, Medical Treatment and Procedures with Patient Morbidity and Mortality.
UIDM601	Nanotechnology in Medicine	CO1	:	Recall & Relate the importance of nano technology in the field of medicine.
		CO2	:	Apply the Benefits of the Nanotechnology-Based Systems Compared to Traditional Treatments,
		CO3	:	Analyze the Advanced Ideas And Techniques Required in Emergent Area Of Nanotechnology.
		CO4	:	Explain Fundamental Principles That Allow Implementation Of The Nanotechnology-Based Treatments In A Clinical Setting,
		CO5	:	Discuss the Applications of Nano technology in industries, medicine, Pharmacology and treatment of Specific diseases.

DEPARTMENT: COMPUTER SCIENCE

Course Code	Course Title	Course Outcome		
UCSM506	Data mining	CO1	:	Understand the various kinds of patterns that can be discovered by association rule mining.
		CO2	:	Apply to remove redundancy and incomplete data from the dataset using data preprocessing methods.
		CO3	:	Prioritize the data warehousing architectures and uses of tools for systematically organizing large database and use their data to make strategic decisions
		CO4	:	Discover interesting patterns from large amounts of data to analyze for predictions and classification

		CO5	:	Develop a data mining application for cluster analysis using various tools.
UCSM512	Database Management System	CO1	:	Acquire Knowledge and Discuss relational database theory.
		CO2	:	Understand and design ER-models based on scenarios which represent in database application
		CO3	:	Demonstrate the normalization for the development of application software.
		CO4	:	Select the SQL queries based on the commercial database system.
		CO5	:	Formulate the concurrency control and recovery techniques by designing the database system.
UCSR512	Data Mining – Practical	CO1	:	Understand the various kinds of tools
		CO2	:	Analyze the importance of preprocessing in the data mining process.
		CO3	:	Classify the data mining techniques such as clustering, association mining, classification and prediction.
		CO4	:	Apply data mining techniques for realistic data.
		CO5	:	Design and formulate skills will improve.
UCSO501/ UCAO501/	Cyber Security	CO1	:	Interpret and forensically investigate security incidents.
		CO2	:	Analyze and communicate the human role in security systems with an emphasis on ethics, social engineering vulnerabilities and training.
		CO3	:	Examine and resolve security issues in networks and computer systems to secure an IT infrastructure.
		CO4	:	Evaluate the policies and procedures to manage enterprise security risks.
		CO5	:	Create the ability to handle the intrusion and detection
UCSO502	Computer Graphics	CO1	:	Define features of overall view graphics system process
		CO2	:	Apply and Differentiate 2D,3D transformations
		CO3	:	Demonstrate with Illustrate animation software to determine program processing and to differentiate color models concepts
		CO4	:	Construct with Illustrate OpenGL graphics

				program to represent basics drawing primitives
		CO5	:	Create Algorithm to Classify the Visible surface hidden methods
UCSO503	React JS	CO1	:	Understand the fundamentals of React JS
		CO2	:	Illustrate the concept of JSX.
		CO3	:	Analyze the concept of React JS Environment Setup
		CO4	:	Examine the types of form components and animations.
		CO5	:	Implement React components with JSX template.
UCSO504	Block chain Technology	CO1	:	Understand and discover the secure and efficient transactions with crypto-currencies and learnt Private Block chain environment
		CO2	:	Identify the experiment with cryptocurrency trading and crypto exchanges
		CO3	:	Demonstrate various issues of transaction processing in Bitcoin
		CO4	:	Develop a smart contract on Ethereum
		CO5	:	Build the hyperledger architecture and the consensus mechanism applied in the hyperledger
UCSM612	Cloud Computing	CO1	:	Understand the core concepts of Cloud Computing and its characteristics
		CO2	:	Apply various Services and Models in Cloud.
		CO3	:	Examine the vision of Cloud Security Risk from a global context.
		CO4	:	Determine the Market perspective of Cloud Computing.
		CO5	:	Build various cloud computing models by using Fog and Edge Computing
UCSM614	Big data Tools	CO1	:	Understand Big Data and its analytics in the real world
		CO2	:	Solve Data Intensive Problems using Map Reduce Paradigm
		CO3	:	Explore tools and practices for working with big data
		CO4	:	Evaluate Big Data Analytics using pig and spark tools to generate Solutions.

		CO5	:	Construct Big Data tools in modern databases
UCSM615	Internet of Things	CO1	:	Understand the working of Internet of Things (IoT) system by integrating control units, sensors, and communication technologies using appropriate programming languages and tools.
		CO2	:	Make use of the potential security and privacy risks associated with IoT devices and implement appropriate measures to mitigate those risks.
		CO3	:	Examine the effectiveness of various machine-to-machine (M2M) interactions in different scenarios, and troubleshoot common M2M issues.
		CO4	:	Analyze data from various sources, including participatory sensing and cloud storage models to perform data analytics and generate insights that can inform decision-making in IoT applications.
		CO5	:	Design and implement a real-world IoT application to solve a specific problem, considering real-world design constraints, such as cost, scalability, and usability.
UCSR608	Big data Tools Practical	CO1	:	Demonstrate the components of Apache Hadoop
		CO2	:	Apply machine learning techniques like classification and regression.
		CO3	:	Analyze and visualize large datasets using Big Data tools
		CO4	:	Evaluate large datasets using Pig and Hive tools.
		CO5	:	Develop Models by Hands on experience with real world data.
UCSR609	Cloud Computing-Practical	CO1	:	Identify the different types of cloud services
		CO2	:	Construct cloud computing on different platforms like AWS, Azure.
		CO3	:	Categories multiple cloud services and technologies to build complex and scalable systems.
		CO4	:	Evaluate different cloud architectures and deployment models
		CO5	:	Design and implement cloud based solutions for specific use cases, such as data analytics, machine learning and IOT.

UCSO609	Artificial Intelligence	CO1	:	Identify the appropriate algorithms for solving given AI problems
		CO2	:	Apply autonomous agents that make effective decisions in fully informed, partially observable, and adversarial settings.
		CO3	:	Analyze and formulate the First Order Logic from propositional logic.
		CO4	:	Evaluate intelligent expert models towards perception and prediction from intelligent environment.
		CO5	:	Build AI techniques to synthesize information and develop models within the constraint of Application area
UCSO610	Open Source Technology	CO1	:	Understand the basic tags of HTML and CSS
		CO2	:	Apply the user Interfaces to different devices and requirements
		CO3	:	Analyze different jQuery UI.
		CO4	:	Evaluate web applications using LAMP.
		CO5	:	Create session control PHP code for a website.
UCSO606	Network Security	CO1	:	Understand the fundamental concepts of security, including the need for security, security approaches, principles of security, and types of attacks.
		CO2	:	Apply conventional encryption techniques, including block cipher principles, the Data Encryption Standard (DES), and block cipher modes of operation.
		CO3	:	Examine network security applications, including authentication security, and web security
		CO4	:	Evaluate and implement public key encryption and hash functions, including the RSA algorithm, Diffie Hellman key exchange, and message authentication codes.
		CO5	:	Formulate measures against intruders, viruses, worms, and cyber threats, including intrusion detection, password management, firewalls, and virtual private networks.

COURSE OUTCOMES – 2022-2023

DEPARTMENT: COMPUTER APPLICATION

Course Code	Course Title	Course Outcome		
UCAM510	Cloud Computing	CO1		Articulate the main concepts, key technologies in cloud computing.
		CO2		Relate the key and enable technologies that help in the development of the cloud.
		CO3		Explain various tools, web services and the types of virtualization.
		CO4		Value the security standards and applications
		CO5		Develop and Implement the usage of current cloud technologies
UCAM511	R Programming	CO1		Understand simple graphics and visualization in R.
		CO2		Choose to import a variety of lists and frames into R.
		CO3		Analyze to implement the Table, Math Functions into R
		CO4		Evaluate the simple problems by analyzing the logics of conditional statements and looping constructs.
		CO5		Develop programming language concepts such as data types, iteration, vectors functions, and boolean operators.
UCAO502	Artificial Intelligence	CO1		Understand the fundamentals of knowledge representation (logicbased, frame based, semantic nets) inference and theorem proving.
		CO2		Recognize working knowledge of reasoning in the presence of incomplete and/or uncertain information.
		CO3		Apply and Examine the knowledge representation, and reasoning techniques to real world problems
		CO4		Evaluate the Learning techniques to implement basic AI algorithm.
		CO5		Design and carry out an empirical evaluation of different algorithms and communication processes to develop

				Robotics Software Architectures.
UCAO503	Software Testing	CO1		Understand the fundamentals of software testing.
		CO2		Discuss the various origins of defect classes for testing methods.
		CO3		Apply and Evaluate the system with various testing techniques and strategies.
		CO4		Distinguish characteristics of structural testing methods
		CO5		Design the automated testing using test tools
UCAM609	Data Mining	CO1	:	Define the fundamental concepts of data mining and knowledge discovery in databases.
		CO2	:	Identify and differentiate various types of databases and their relevance to data mining.
		CO3	:	Compare data preprocessing techniques, such as cleaning, integration, transformation, reduction, and discretization, to improve data quality.
		CO4	:	Evaluate the accuracy and performance of classification models using appropriate metrics and techniques.
		CO5	:	Design and explain the concepts and challenges related to advanced topics in data mining, such as web mining, spatial mining, and temporal mining.
UCAM612	Computer Graphics and Image Processing	CO1	:	Choose the common terms used in computer graphics.
		CO2	:	Apply Transformation techniques used in CG.
		CO3	:	Construct image formation and classify its types.
		CO4	:	Evaluate Image enhancement and restoration techniques.
		CO5	:	Develop skills on exploration and appropriate use of image processing methods.
UCAM613	Internet of Things	CO1	:	Define the concept of the Internet of Things (IoT) and its components.
		CO2	:	Apply programming skills to microcontrollers (e.g., Arduino) for IoT applications.
		CO3	:	Analyze the integration of RFID

				technology with information technology systems.
		CO4	:	Evaluate different types of machine-to-machine (M2M) interactions in IoT scenarios.
		CO5	:	Design and develop real-world IoT
UCAR603	Data Mining - Practical	CO1	:	Compare and describe the key attributes and characteristics of different domain datasets, such as student details, supermarket details, library details, employee details, and customer details.
		CO2	:	Examine data preprocessing techniques to clean, transform, and normalize the datasets using Weka Tool.
		CO3	:	Explain the Apriori algorithm to mine association rules from the datasets.
		CO4	:	Determine decision trees using ID3 algorithm and Naïve Bayes algorithm to classify data in the datasets.
		CO5	:	Create and analyze the performance of classification models using cross-validation techniques, such as J48 algorithm.
UCAR604	Computer Graphics and Image Processing - Practical	CO1	:	Explain the applications, areas, and graphic pipeline, display and hardcopy technologies
		CO2	:	Apply and compare the algorithms for drawing 2D images.
		CO3	:	Discuss OpenGL application programming Interface and apply it for 3D computer graphics
		CO4	:	Analyze and apply color image segmentation algorithm
		CO5	:	Solve the problems in medical image segmentation and clustering, compression techniques.
UCAO607	Data Analytics	CO1	:	Understand the concepts of pattern in data.
		CO2	:	Interpret the data with Database.
		CO3	:	Examine the analytic algorithms
		CO4	:	Compare large scale analytics projects from various domains
		CO5	:	Develop intelligent decision support systems

UCAO608	Mobile Computing	CO1	:	Explain the wireless and Mobile Communication system
		CO2	:	Identify the 3G GSM,UMTS,4G LTE and SDR
		CO3	:	Analyze Mobile IP, Mobile Transport Layer and Mobile Database
		CO4	:	Determine the working of Mobile Ad Hoc Networks and Vehicular Ad Hoc Network
		CO5	:	Develop different applications in Mobile Commerce.
UCAO609	Network Security	CO1	:	Understand the terms of security.
		CO2	:	Develop the usage of Algorithms.
		CO3	:	Examine the various functions in security.
		CO4	:	Interpret Encryption and Decryption Process.
		CO5	:	Create the Intrusion and Detection System
UCAO610	Machine Learning	CO1	:	Understand basic applications and different types of datasets
		CO2	:	Apply various Machine Learning techniques and algorithms
		CO3	:	Analyze and work with different datasets
		CO4	:	Evaluate the algorithms with different datasets.
		CO5	:	Develop an algorithm for different machine learning techniques

DEPARTMENT: PSYCHOLOGY

Course Code	Course Title	Course Outcome		
UPSM501	Abnormal Psychology	CO1	:	Define the process of assessing such behavior and the most commonly used system for classifying psychological

				disorders.
		CO2	:	Explain several different theoretical perspectives on psychological disorders.
		CO3	:	Identify the research methods used and research findings on various psychological disorders.
		CO4	:	Analyze the causes and be able to identify the symptoms of various psychological disorders.
		CO5	:	Determine effective treatment approaches to different psychological disorders.
UPSM504	Educational Psychology	CO1	:	Explain the Historical Background, Knowledge, and Skills of Effective Teachers and the Research Methods in Educational Psychology.
		CO2	:	Organize the Implications of Motivation, Teaching, and Learning.
		CO3	:	Identify the Various Approaches to Learning.
		CO4	:	Outline the Knowledge of the Strategies for Effective Classroom Management.
		CO5	:	Classify the Different Exceptionalities of Learners.
UPSM506	Theories of Personality	CO1	:	Understand and Apply Classic and Contemporary Theories of Personality to Real World Situations.
		CO2	:	Critically Examine the Major Theories and Findings of the Field of Personality Psychology.
		CO3	:	Understand Approaches to Psychological Assessment and Psychotherapy that Relate to the Personality Theories.
		CO4	:	Recognize the Interaction of Situational and Individual Characteristics on the Development of Personality.
		CO5	:	Explain Personality-Related Processes that Underlie Individual

				Differences in Behavior.
UPSO501	Consumer Behavior	CO1	:	Define the Consumer Motivation and Identify its Measurements
		CO2	:	Understand the Principal Factors that Influence Consumers as Individuals and Decision Makers with an Application to the Buying Decision Process.
		CO3	:	Apply and Demonstrate Theories to Real-World Marketing Situations by Profiling and Identifying Marketing Segments
		CO4	:	Appraise Models of Consumer Behavior and Determine their Relevance to Particular Marketing Situations
		CO5	:	Identify the Dynamics of Human Behavior and the Basic Factors that Influence the Consumer's Decision Process
UPSO502	Human Resource Development	CO1	:	Evaluate the perspective of Human Resource Development as discipline appreciating learning.
		CO2	:	Developing skills of a detailed plan needed and demonstrate the implementation of HRD program in the organization.
		CO3	:	Explain the role of learning in action as an individual, group and an organization in order to develop creative strategies to organizational problems.
		CO4	:	Analyze the perspective of HRD beyond organizational realities including national HRD.
		CO5	:	Explain the contemporary realities of HRD and its interface with technology.
UPSM601	Clinical Psychology	CO1	:	Understand various assessment techniques, and therapeutic interventions allowing them to diagnose and treat mental health disorders.
		CO2	:	Identify and teach the skills to become

				a professional in clinical psychology
		CO3	:	Distinguish between disorders and assess various conditions that arise in clinical practice.
		CO4	:	Evaluate therapeutic programs based on the client's specific goals, to promote a positive mental health outcome
		CO5	:	Develop empirically supported interventions for clients across the lifespan.
UPSM602	Counselling Psychology	CO1	:	Summarize the foundational aspects of counseling.
		CO2	:	Utilize the micro-skills required to conduct a successful counseling session
		CO3	:	Simplify the mechanisms involved in group counseling.
		CO4	:	Explain how gender issues and socialization affect men and women in an evolving society
		CO5	:	Develop an effective counseling session using principles of family counseling, group work, and career development.
UPSM604	Health Psychology	CO1	:	Recall and comprehend the meaning, background, and foundation of health psychology.
		CO2	:	Apply evidence-based strategies to analyze and manage stress
		CO3	:	Analyze the concepts of behavior and its implications for health promotion.
		CO4	:	Evaluate the diverse psychosocial interventions for chronic illnesses, assessing their efficacy in improving patient's overall well-being and quality of life.
		CO5	:	Formulate an intervention plan for individuals dealing with addiction.
UPSM606	Positive Psychology	CO1	:	Outline the core fundamentals and criticisms of positive psychology
		CO2	:	Develop age-appropriate stories and games

				to foster a positive mindset.
		CO3	:	Distinguish emotions and recognize positive aspects of themselves and others.
		CO4	:	Measure happiness and variables that are related to overall well-being.
		CO5	:	Create a simulation that embodies the concept of Positive Psychology in everyday life.
UPSO601	Psychometric Methods and Statistics	CO1	:	Understand and remember the role of psychological testing in various settings.
		CO2	:	Apply different types of norms in the interpretation and evaluation of test results in diverse settings.
		CO3	:	Analyze the historical perspectives regarding the nature and meaning of assessment.
		CO4	:	Evaluate and organize the various steps involved in the construction of a Psychological Test.
		CO5	:	Create comprehensive and effective research designs by selecting appropriate statistical tests.
UPSO602	Rehabilitation Psychology	CO1	:	Explain the aspects of providing support for individuals with disabilities.
		CO2	:	Apply the principles of various models in rehabilitation counseling.
		CO3	:	Analyze psychosocial rehabilitation approaches and assess their significance.
		CO4	:	Evaluate the significance of recovery and relapse prevention.
		CO5	:	Design an effective program for disabled people focusing on goal setting and achieving independence.

DEPARTMENT: COSTUME DESIGN AND FASHION

COURSE OUTCOMES – 2022-2023

Course Code	Course Title	Course Outcome		
UCDM101	Fundamentals of Fashion	CO1		Knowledge to perform visual research for application of elements in context of fashion.
		CO2		Classify the fashion trends.
		CO3		Create compositions using various color schemes.
		CO4		Explain to plan wardrobe design dress for different occasions and events.
		CO5		Accredit with skills of drawing and usage of various art mediums.
UCDA101	Indian Costumes and Textiles	CO1		Know the woven and dyed textile.
		CO2		Understand the traditional embroidery of India.
		CO3		Learn the traditional costumes and Embroidery in India
		CO4		Identify a specific embroidery style of India on the basis of colors, motifs, layouts.
		CO5		Identify the influencing factors for development and evolution of a specific embroidered textile.
UCDR101	Fashion Illustration Practical	CO1		Select the apparel using color harmony and types of charts.
		CO2		Illustrate the apparel design for elements of designs.
		CO3		Draw fashion figures by understanding body proportions.
		CO4		Drape the desired idea of their design onto the fashion figure.
		CO5		Classify the sketches of clothing items on the human body.
UCDR102	Basics of apparel Construction Practical	CO1		Define the garment finishing
		CO2		Classify the plackets.
		CO3		Explain about the various components of garment construction and its application
		CO4		Identify the sleeves and collars
		CO5		Construct various forms of Plackets and Pockets
UCDM201	Fiber and yarn Manufacturing	CO1	:	Understand fibers and their use in different sectors.
		CO2	:	Understand about yarns and their creative

				use
		CO3	:	Identify different kinds of fabrics – composition, weave etc.
		CO4	:	Learn the properties and manufacturing of different fibers.
		CO5	:	Evaluate the methods of yarn manufacturing
UCDM202	Pattern Making	CO1	:	Introduce the methods of pattern making and its alternation.
		CO2	:	Illustrate different designs and styles for Women's wear.
		CO3	:	Construct and rephrase basic into modify patterns.
		CO4	:	Examine suitable fabrics, colors and designs for all patterns.
		CO5	:	Construct the garment as per the pattern and drafting procedure.
UCDR201	Advance Fashion Illustration	CO1	:	Select the apparel using color harmony and types of charts.
		CO2	:	Illustrate the apparel design for elements of designs
		CO3	:	Classify the sketches of clothing items on the human body
		CO4	:	Find the human body in proportions relevant to fashion illustration.
		CO5	:	Select the apparel using color harmony and types of charts
UCDR202	Kids Apparel	CO1	:	Understand the patterns for all kind of designs for kids wear
		CO2	:	Illustrate different designs and styles for children's.
		CO3	:	Construct basic and modified patterns.
		CO4	:	Examine suitable fabrics, colors and patterns for designs
		CO5	:	Construct the garment as per the pattern and drafting procedure.
UCDA201	Apparel Marketing	CO1	:	Understand the apparel market and environment.
		CO2	:	Describe the apparel market and environment.
		CO3	:	Formulate the promotional strategies.
		CO4	:	Collect export marketing and documentation.
		CO5	:	Analyze the target market and manage the marketing mix.
UCDR203	Surface Embellishment	CO1	:	Understand the different types of embroidery stitches.

		CO2	:	Understand the stitches create by hand
		CO3	:	Understand how to trace a design and convert to fabric.
		CO4	:	Acquire practical knowledge in advance and surface embroidery.
		CO5	:	Make creative designs in embroidery and prepare dresses by using those embroidery stitch
UCDM301	Fabric Manufacturing Techniques	CO1	:	Label the variety of fabric manufacturing techniques and equipment.
		CO2	:	Experiment with cloths and it's methods of knitting and weaving
		CO3	:	Compare the differences between weft knitting and warp knitting
		CO4	:	Determine the non-woven fabrics to evaluate their characteristics.
		CO5	:	Build the knowledge of textiles and other methods of fabrication.
UCDR301	Fabric Structure and Design	CO1	:	Outline the design of the woven fabric structure and its basics
		CO2	:	Experiment with the various fabric structure design types.
		CO3	:	Take part in fabric structure Design and the relationship of PegPlans
		CO4	:	compare the Fabric Structure patterns and design
		CO5	:	Formulate a new Fabrics Structure designs and develop its drafts
UCDR302	Computer Aided Designing - practical-I	CO1	:	Relate the digital fashion design skills to industry standards.
		CO2	:	Develop a design in a unique way by using various garment components, accessories & human Anatomy and motif's color
		CO3	:	Construct logo designs and background themes and its applications.
		CO4	:	Interpret the design knowledge base in Children's and Ladies' Clothing
		CO5	:	Formulate and improve various fashion design presentation products
UCDA301	Visual Merchandising	CO1	:	Illustrate the evolution and Current structure of the apparel retailing industry in India.

		CO2	:	Make use of marketing mix, basic principles of visual merchandising and effective customer handling practices.
		CO3	:	Discover the boutique's features and its components
		CO4	:	Assess the concept of merchandise display
		CO5	:	Create an awareness of retailing business models and the factors governing the design of online apparel stores.
UCDM302	Fashion clothing and Psychology	CO1	:	Relate fashion clothing and psychology
		CO2	:	Develop expertise in the field of fashion psychology and Elements of art and principles of design.
		CO3	:	Discover the effects of the economy, politics, law, and seasons in fashion
		CO4	:	Appraise the innovators and the victims of fashion and Motivates Indian culture
		CO5	:	Elaborate about the Global Fashion Centre
UCDR303	Women's Apparel practical	CO1	:	Demonstrate various patterns and looks for women's clothing.
		CO2	:	Build the fundamentals to create customized patterns.
		CO3	:	Classify appropriate materials, hues, and patterns.
		CO4	:	Construct the garment drafting process and pattern making
		CO5	:	Estimate the garment's cost calculation.
UCDM401	Textile wet processing	CO1	:	Explain the textile industry's process sequence
		CO2	:	Organize the various textile finishes
		CO3	:	Examine dyes and dyeing techniques
		CO4	:	Assess the different printing techniques
		CO5	:	Discuss a plan for the dying process's treatment, energy conservation, and cost management.
UCDR401	Textile wet processing Practical	CO1	:	Relate the appropriate wetting agent and detergent strength
		CO2	:	Identify the bleaching polyester, acrylic, blends of polyester and cotton, and polyester and viscose rayon.
		CO3	:	Test for the discharge printing method for wool and silk

		CO4	:	Influence Direct-style printing on a combination of polyester andcotton
		CO5	:	Test finishes for softening and wash-in wear.
UCDR402	Men's Apparel Practical	CO1	:	Summaries Designing, drafting and constructing the garments
		CO2	:	Apply relevant technologies within fashion.
		CO3	:	List the necessary measurements and appropriate materials.
		CO4	:	Decide the cost of the garment
		CO5	:	Make up the usage of direct measurement method and the layout method
UCDR401	Fashion Accessories	CO1	:	Extend the skills of several fashion accessories
		CO2	:	Experiment with different materials of artistic accessories
		CO3	:	Analyze the accessories for a fashion show.
		CO4	:	Recommend the handmade goods creation and its applications
		CO5	:	Modify accessories for the portfolio that match your outfit.
UCDM402	Boutique Management	CO1	:	Explain the administration of the boutique.
		CO2	:	Make use of the business strategy and possibilities.
		CO3	:	Construct the interior design of the boutique
		CO4	:	Evaluate the Boutique and Brand
		CO5	:	Create the fresh concepts for product planning and design
UCDM403	Textile Finishing & Fabric Care	CO1	:	Extend the methods for preparing the fabric
		CO2	:	Select the various fabric finishes
		CO3	:	Categories fabric functional finishing
		CO4	:	Justify the methods of caring for clothes.
		CO5	:	Develop the garment care machinery and equipment.

DEPARTMENT: CLINICAL NUTRITION AND DIETETICS

COURSE OUTCOMES – 2022-2023

Course Code	Course Title	Course Outcome		
UCNM101	Food Science	CO1		Define food groups and its function, food pyramid and understanding cooking methods.
		CO2		Describe the nutritive value; the cookery concepts involved in cereals andpulses.
		CO3		Illustrate with nutritional classification, changes in pigments of fruits, vegetables and apply the knowledge on preparation of beverages.
		CO4		Explain the composition, nutritive value and developing skills in the preparation of milk and egg product and determine the smoking point of any cooking oil.
		CO5		Explain the nutritive value, selection and methods of cooking fleshy foods and evaluate the uses and abuses of spices and condiments.
UCNM102	Human Nutrition - I	CO1		Define the fundamental concepts of food and nutrition.
		CO2		Tabulate the daily requirements of macro and micro nutrients.
		CO3		Explain the nutritional significance of macromolecules.
		CO4		Explain the meaning of energy balance, and methods to calculate energy needs.
		CO5		Recommend others about holistic Nutrition, life style ,wellness and healthy Living.
UCNR101	Food Science Practical	CO1		Describe the scientific principles in food preparation.
		CO2		Demonstrate the different methods of food measurement andcooking
		CO3		Explain the effect of desirable and undesirable changes during cooking of foods
		CO4		Explain the basic methods and principles involved in cooking
		CO5		Evaluate the change of pigments during cooking
UBCA101	Biochemistry	CO1		Describe the biochemical pathways relevant in nutrient metabolism.
		CO2		Explain the nutritional significance of

				macromolecules.
		CO3		Illustrate the nutrition-related conditions and assessment ofnutritional status.
		CO4		Explain the metabolic inter-relationship between macronutrients.
		CO5		Classify the different types of macromolecules and its significance.
UBCR101	Biochemistry Practical	CO1	:	Analyze the constituents of food present in biological fluid.
		CO2	:	Record the readings of biochemical molecules using calorimetric method.
		CO3	:	Acquire skills on preparation of solutions.
		CO4	:	Interpret the serum levels of components of nutritional significance.
		CO5	:	Plan the major nutrients to be taken.
UCNM201	Human Nutrition - II	CO1	:	Explain the importance of micronutrients.
		CO2	:	Describe the role of food and nutrients in health and disease Prevention.
		CO3	:	Evaluation nutrition information based on scientific reasoning for clinical and community application.
		CO4	:	Analyze conceptualize, implement and evaluate the functions, metabolism, requirements and effects of deficiency of nutrients.
		CO5	:	Analyze the interrelationships of nutrients.
UCNM202	Human Physiology	CO1	:	Explain the components of blood, blood grouping & cardio vascular system.
		CO2	:	Illustrate the mechanism of digestion, absorption of macromolecules and explain urine formation.
		CO3	:	Describe the process of gaseous exchange in tissues and lungs, respiratory adaption to high altitude.
		CO4	:	Measure and give results for identifying the physiological functions.
		CO5	:	Determine the mechanism of contraction and relaxation of muscles.
UCNR201	Nutrient Analysis and Physiology Practical	CO1	:	Understands the methodology of estimation of certain nutritionally significant markers
		CO2	:	Interpret the serum levels of components of nutritional significance
		CO3	:	Attain knowledge about the principles of nutrition through the study of physiology.
		CO4	:	Identify the blood grouping of the

				individuals
		CO5	:	Evaluate the physiological functions relevant to nutrition care
UFSA201	Food Service Management	CO1	:	List of human resources within a food services organization orDepartment.
		CO2	:	Communicate appropriately with clients, staff and management.
		CO3	:	Apply food services technology and operate industry equipment.
		CO4	:	Develop nutritional menus for food service production.
		CO5	:	Manage food service production.
UFSR201	Quantity Cookery Practical	CO1	:	Describe the principles and techniques involved in preparing large proportions and standardization of food.
		CO2	:	Explain the methods of preparation of multi cuisine recipes.
		CO3	:	Choose the ingredients for quantity cookery according to portion size and cost
		CO4	:	Analyze the new technology and its potential in relation to food preparation and cookery.
		CO5	:	Organize sale and fix profit margin for food products.
UCNM301	Medical Nutrition Therapy - I	CO1	:	Understand the basic principles of diet and diet therapy.
		CO2	:	Identify the nutrition care process and International dietetic and nutrition terminologies.
		CO3	:	Make use of the skills for planning and devising dietary recommendations to specific clinical conditions.
		CO4	:	Assess the nutritional status and determine effective dietary management to combat malnutrition.
		CO5	:	Prepare the diet plan based on the case study.
UCNR302	Medical Nutrition Therapy Practical	CO1	:	Describe and understand the skills in planning therapeutic diets.
		CO2	:	Apply the skills to gauge the extend of deficiencies.
		CO3	:	Distinguish the symptoms and biochemical parameters for effective administration of diet therapy.
		CO4	:	Examine the nutritional requirements based on individual patient needs.

		CO5	:	Compose an appropriate dietary modifications.
UMBA301	Basics of Food Microbiology	CO1	:	Recall and explain the fundamental knowledge on the microorganisms.
		CO2	:	Identify the sources of contamination and spoilage offoods.
		CO3	:	Classify the different types of immunity and vaccines.
		CO4	:	Asses the causes and prevention of food poisoning and food borne infections.
		CO5	:	Test the various types of microbes, including bacteria, fungi, and viruses, that are utilized in industrial applications.
UMBR301	Food Microbiology Practical	CO1	:	Recall and understand the principles of microorganisms during various food-processing
		CO2	:	Identify the structure of bacterial cells, its organelles.
		CO3	:	Examine the different foods that present in hazardous microorganisms using in traditional and modern food microbiological technology
		CO4	:	Asses the various biochemical processes to obtain products such as food, chemicals, vaccines and medicine
		CO5	:	Minimize the specific types of microbial spoilage during various food shelf life stages.
UCNM401	Community Nutrition	CO1	:	Recall and outline the nutritional status of community and develop necessary interventions.
		CO2	:	Identify the causes and consequences of nutrition problems in the society.
		CO3	:	Analyze the effectiveness of traditional and advanced dietary assessment methods in capturing habitual dietary intake over time and in diverse populations
		CO4	:	Assess the efficiency and accessibility of current distribution systems for infant foods, evaluating their suitability for low-cost weaning formulations.
		CO5	:	Plan the nutrition health educational programs for vulnerable sections of the community by promoting sustainability, gender equity and safe healthy practices.
UCNM402	Nutrition Through	CO1	:	Gain and understands the principles of effective meal planning.

	Life Cycle	CO2	:	Identify nutrition related concerns and deficiency at every stage of lifecycle.
		CO3	:	Analyze food labels to understand nutritional content and make informed choices for various age groups.
		CO4	:	Assess the balance of macronutrients in the diet and its impact on age-related conditions.
		CO5	:	Develop the healthy eating behaviors to general well being.
UCNR401	Community Nutrition Practical	CO1	:	Understand the role of national and International contributor towards national improvement in alleviating malnutrition and other nutrition problems.
		CO2	:	Develop community nutrition education by taking part in village projects and transferring to public to improve their health.
		CO3	:	Analyze existing problems and also understand the importance of nutrition to overcome all deficiency disorders.
		CO4	:	Assess the nutritional status of community and develop necessary intervention according to the need.
		CO5	:	Develop best practices and evidence to identify problems and generate and evaluate practical solutions to a range of nutrition issues.
UCNE401	Nutrition in disaster Management and emergencies	CO1	:	Recall and understand the various response mechanisms employed during emergencies, including emergency services, humanitarian aid, and public health interventions.
		CO2	:	Familiarize on nutrient-rich foods consumed within the population for targeted nutritional interventions.
		CO3	:	Aware on the nutritional data collected during emergencies to identify patterns and variations.
		CO4	:	Assess the effectiveness of existing nutrition interventions based on the learned experience.
		CO5	:	Construct frameworks for evaluating the effectiveness of nutrition strategies in diverse contexts.
UCNE401	Women & child Health	CO1		Understand the factors influencing maternal and child healthoutcomes.

		CO2		Engage with how different stages of the lifecycle affect on women and child health
		CO3		Assess the effectiveness of existing maternal and child health programs.
		CO4		Evaluate the ethical considerations in maternal and child health research and practice.
		CO5		Minimize the health problems of adolescent girls and adult women.

DEPARTMENT: JOURNALISM AND MSS COMMUNICATION

Course Code	Course Title	Course Outcome		
UJMM101	Introduction to Mass Communication	CO1		Develop Students' Knowledge and Understanding of the Mass Communication Process and the Mass Media Industries.
		CO2		Understand the Relationships among Communication, Mass Communication & Culture.
		CO3		Recognize Trends in Mass Media, Especially Concentration of Ownership and Conglomeration, Globalization, Audience Fragmentation &Public Relations.
		CO4		Apply Students Understanding of Mass Communication Theory Toward Improving their own Media Literacy Skills.
		CO5		Demonstrate Students' Understanding of Freedom, Regulatory, and Ethical Issues as applied to both Mass Media Industries and Individual use of the Mass Media.
UJMR101	Photography-Practical	CO1		Describe the Fundamental Concept of the Medium of Photography, Combine the Science and Art on Photography
		CO2		Relate the History of Medium, Design Storytelling through the Visual Medium.
		CO3		Apply Journalistic Ethics to Photojournalism, especially in a World of Digital Photography.

		CO4		Develop Projects that Address both the Art of Medium as well as the Commercial Application
		CO5		Illustrate how Photographs are used to Communicate in Different Media including Newspapers, Magazines, Books and Online Websites.
UJMA101	History of Journalism in India	CO1		Understand the relation between History and Present of various Media Genres.
		CO2		Aware about Ethical Codes of Journalism and Mass Media.
		CO3		Analyze the Media System in Global and Social Context.
		CO4		Develop Critical Thinking on Indian Journalism in Pluralistic Society
		CO5		Enumerate the Historical Moments of Print in India
UJMM201	Basics of Journalism	CO1		Understand Basics of News Writing.
		CO2		To Inculcate the Knowledge of and Background of News
		CO3		Apply different Writing Techniques in News.
		CO4		Develop the Knowledge of Web Writing.
		CO5		Demonstrate the skills of Editing ,Proof Reading and Feature Writing
UJMR201	Print & Publishing Design-	CO1	:	Understand Layout and Design Principles.
		CO2	:	Analyze the Importance of Web Designing
		CO3	:	Apply different theories of Web Designing.
		CO4	:	Combine Photography, Creative Writing and Editing Skills to Produce Demand basic Design
		CO5	:	Produce Effective and Attractive Print-based Publications.
UJMA201	Theories of Communication	CO1	:	Discuss the Importance of Communication Theory from Multiple Philosophical Perspectives.
		CO2	:	Trace the Historical Development, Conceptual Framework, and Current Status of Several Key Communication Theories in Multiple Contexts and apply it.
		CO3	:	Relate Theory and Research Methods, Including Standards for Evaluation and Analysis of Theories through Discussion.
		CO4	:	Utilize the Vocabulary and Ethics in the Study of Communication.
		CO5	:	Examine and apply the various models of

				theories.
UJMM301	Development Communication	CO1	:	Recall and explain the key milestones and historical evolution of development communication, identifying significant events and contributors.
		CO2	:	Apply the knowledge of communication theories across diverse cultural and socio-economic contexts, recognizing the need for context-specific adaptations.
		CO3	:	Examine the alignment of NGO goals with community needs and analyses the impact on communication outcomes.
		CO4	:	Evaluate existing policies and proposed responses to current issues, considering their effectiveness, feasibility, and alignment with societal values.
		CO5	:	Generate innovative digital storytelling approaches using ICT tools to convey impactful narratives, effectively communicating the human aspects of development challenges.
UJMM302	Specialized Reporting	CO1	:	Recognize and understand the significance of accurate and reliable sourcing in specialized reporting, understanding its impact on the credibility of journalistic work.
		CO2	:	Apply investigative reporting methodologies in various genres, including news articles, features, and in-depth analyses.
		CO3	:	Analyze the use of technology, including data visualization tools and digital platforms, in science reporting and assess their impact on storytelling.
		CO4	:	Assess the underlying factors and dynamics contributing to conflicts, evaluating the historical, social, economic, and political dimensions.
		CO5	:	Create in-depth feature stories that delve into specific aspects of their specialized reporting domain, showcasing a nuanced understanding and the ability to present complex information effectively.
UJMA301	Socio-economic and Political issues in India	CO1	:	Understand the foundation of economic
		CO2	:	Outline the growth and development of economics.

		CO3	:	Inspect the Indian society
		CO4	:	Interpret about social issues
		CO5	:	Imagine the relationship between society and economics.
UJMR301	Print Journal	CO1	:	Recall and understand the key concepts in print journalism, including editorial content, bylines, and mastheads.
		CO2	:	Classify different types of print journalism publications, identifying unique characteristics and target audiences.
		CO3	:	Investigate emerging trends in news storytelling, including multimedia integration and interactive elements.
		CO4	:	Assess the impact of digital advancements on traditional print media, analyzing the effectiveness of integrating multimedia elements.
		CO5	:	Design variety of printed materials, including pamphlets, brochures, tabloid-style publications, etc.
UJMM401	Corporate Communication	CO1	:	Define and explain the evolution of corporate communication and its relevance in organizational contexts.
		CO2	:	Identify the role and scope of CC in corporate brand management and image factors.
		CO3	:	Distinguish media, especially the trade media, and its relevance to the practice of CC
		CO4	:	Assess how cultural dynamics impact the reception and interpretation of financial information by different segments of the Indian population.
		CO5	:	Develop creative design principles to ensure the visual elements are distinctive, memorable, and representative of the brand.
UJMM402	Television Production	CO1	:	Recall and summarize the historical context and implications of the inaugural television broadcast in shaping the medium.
		CO2	:	Demonstrate the application of character archetypes in a scripted drama by
		CO3	:	Investigate proactive risk management strategies, considering preventive measures that can be implemented during pre-production and early stages of

				the project.
		CO4	:	Evaluate the editing techniques employed in a selected film scene, analyzing the effectiveness of cuts, transitions, and special effects in contributing to the overall storytelling.
		CO5	:	Generate creative solutions for addressing potential challenges in each phase, ensuring a well-rounded and adaptable plan.
UJMA401	Introduction to Constitution	CO1	:	Recall and summarize the foundational principles that influenced the drafting of the Constitution, such as the separation of powers, checks and balances, and federalism.
		CO2	:	Identify the executive branch operates in contemporary political systems, considering its functions in policy implementation, administration, and decision- making.
		CO3	:	Distinguish the roles, responsibilities, and decision-making processes within the executive branch, evaluating how it implements and enforces laws.
		CO4	:	Scrutinize the mechanisms in place to ensure the independence of the judiciary, including judicial appointments and removal processes.
		CO5	:	Illustrate the unique foundations of India's democratic political system, incorporating elements from its historical, social, and cultural contexts.
UJMR401	Broadcast Journalism	CO1	:	Find out the difference in writing the radio and television news scripts
		CO2	:	Develop diverse radio programs
		CO3	:	Distinguish various television programs
		CO4	:	Evaluate students' on-field reporting skills and presentation techniques
		CO5	:	Develop an ability in news presentation techniques and live broadcast handle.
UJME201	Blog Writing	CO1	:	Recognize various techniques in writing Blogs.
		CO2	:	Identify the individual Forms and Styles of Blog Writing.

		CO3	:	Implement the Concept of "Blogging Ethics."
		CO4	:	Apply Business tricks in Writing Blogs.
		CO5	:	Develop individual Blogs and Practice Appropriate Commenting.
UJME401	Basics of Advertising and Copy Writing	CO1	:	Define and explain what advertisement is.
		CO2	:	Apply fundamental principles and diverse approaches to advertising, demonstrating the ability to strategically create and implement campaigns.
		CO3	:	Distinguish the ethical considerations in advertising and public relations.
		CO4	:	Evaluate the effectiveness and significance of copywriting by examining its impact on audience engagement and brand messaging.
		CO5	:	Create a comprehensive exploration of the role of creative writing in copywriting.

DEPARTMENT: TAMIL

Course Code	Course Title	Course Outcome

UTAM505	கவின்கலைகள்	CO1	:	பண்டையத் தமிழ் கலைஞர்களின் கலைகள் குறித்து அறிந்து கொள்வர்
		CO2	:	தமிழரின் பண்பாட்டைக் கட்டமைப்பதில் கவின் கலைகளின் செயல்பாட்டைப் புரிந்து கொள்ளும் திறம் பெறுவர்.
		CO3	:	கலைகளின் செயல்பாட்டுத் தன்மையை அறிந்து, கலைஞர்களுக்கான சமூக மதிப்பை விமர்சன ரீதியில் மதிப்பிடும் ஆற்றல் பெறுவர்.
		CO4	:	கலைகளின் வளர்ச்சி நிலைகளை சமூக மாற்றத்தோடு பகுப்பாய்வு செய்யும் திறன் பெறுவர்.
		CO5	:	தமிழ் நுண்கலைகளின் நுட்பங்களை அறிந்துகொண்டு இக்கால தொழில் நுட்பக் கருவிகளில் நுண்கலைகளைப் பயன்படுத்தி பணி வாய்ப்புப் பெறுவர்.
UTAM506	சங்கஇலக்கியம்	CO1	:	தமிழரின் சமயக் கோட்பாட்டை உலகு தழுவிய சிந்தனை தளத்தில் அறிந்து கொள்வர்.
		CO2	:	பக்தி இலக்கியம் முன்மொழிகின்ற சிந்தனைகளைப் பகுப்பாராயும் திறம் பெறுவர்.
		CO3	:	தமிழ் பக்தி இலக்கியங்களின் பன்முகத்தன்மையை இக்காலச்சூழலுக்கு ஏற்ப மதிப்பிடுவர்.
		CO4	:	பக்தி இலக்கியங்கள் சுட்டுகின்ற அறக் கருத்துகளை புரிந்து கொள்வர்
		CO5	:	இக்காலச் சூழலுக்கு ஏற்ப புதிய பக்தி இலக்கியப் படைப்புகளை உருவாக்கும் திறம் பெறுவர்.
UTAM509	நம்பியகப்பொருள்	CO1	:	அகத்திணைக்கான இலக்கணக் கூறுகளை அறிந்துக் கொள்வர்.
		CO2	:	சங்க இலக்கிய அகநூல்களை

				இலக்கணத்தோடு பொருத்தி பார்த்து புரிந்துக் கொள்வர்.
		CO3	:	தமிழ் மொழியின் தொன்மையான இலக்கியங்களைப் பற்றிய புரிதலை இலக்கணம் வழி அறிந்துக் கொள்வர்.
		CO4	:	சங்ககால களவு வாழ்விற்குரிய கூறுகளை அறிந்து திறன் பெறுவர்.
		CO5	:	சங்ககால கற்புநெறிகள் குறித்த அறப் பண்புகளை வளர்த்துக் கொள்வர்.
UTAM510	ஊடகத்தமிழ்	CO1	:	ஊடகங்கள் திறன்மிக்க கருத்துப் பரிமாற்றத்தில் செயல்படும் முறையை அறிந்து கொள்வர்.
		CO2	:	சமூக ஊடாட்டத்தின் வாயிலாக பண்பாட்டைக் கட்டமைப்பதில் ஊடகங்களின் செயல்பாட்டைப் புரிந்து கொள்வர்.
		CO3	:	ஊடகங்களில் வெளிவரும் செய்திகளின் மெய்மைத் தன்மையை விமர்சன ரீதியில் மதிப்பிடுவர்.
		CO4	:	ஊடகங்களின் செயல்பாட்டு முறைகளை பகுத்து ஆராய்வர்
		CO5	:	நவீன தகவல் தொழில்நுட்ப ஊடகங்களில் செயல்முறை அறிவோடு ஊடகவியலாளராகப் பணி வாய்ப்பினைப் பெறுவர்.
UTAO511	நாடகவியல்	CO1	:	நாடகத்தின் தோற்றம் வளர்ச்சியினை அறிந்து கொள்வர்.
		CO2	:	நாடகத்தின் வகைமைகளைப் புரிந்து கொள்வர்.
		CO3	:	பல்வகையான நாடக அரங்கங்களை அறிந்து தெளிவு பெறுவர்.
		CO4	:	மேலைநாட்டு நாடகக் கோட்பாடுகளை அறிந்து தற்கால நாடகக்கலையில் பொருத்திப் பார்த்து பகுத்தாராய்வர்.

		CO5	:	நாடக நுணுக்கங்களையும் நடிப்புத் திறன்களையும் வளர்த்துக் கொண்டு நாடக ஆசிரியராக அல்லது நடிகராக தம்மை வளர்த்துக் கொள்வர்.
UTAO512	பெண்ணியம்	CO1	:	பெண்ணியத்தின் நோக்கம், தேவைகளை அறிந்துக் கொள்வர்.
		CO2	:	பெண்ணிய படைப்புகளின் வாயிலாக பெண்ணியத்தின் இயல்புகளைப் புரிந்துக் கொள்வர்.
		CO3	:	பெண் உரிமைக்கான பெண்ணியப் படைப்பாளர்களின் செயல்பாடுகளை அறிந்து மதிப்பிட்டு ஆராய்வர்.
		CO4	:	பெண்ணிய கோட்பாடுகளை அறிந்து வாழ்வில் பொருத்திப் பார்த்து பகுத்து ஆராய்வர்.
		CO5	:	பெண்ணியக் கோட்பாடுகளை வாழ்க்கையில் பொருத்திப் பார்த்து ஆண்பெண் சமத்துவத்தினை சமூகத்தில் உருவாக்குவர்.
UTAO513	சிந்தனையியல்	CO1	:	மனித சமூக சிந்தனையின் தோற்றம் குறித்து அறிந்து கொள்வர்.
		CO2	:	இந்திய ஒருமைப்பாட்டினை சிந்தனைகளின் வாயிலாக புரிந்து கொள்வர்.
		CO3	:	மேலைநாட்டு சிந்தனைகளுடன் இந்தியச் சிந்தனைகளை மதிப்பிடுவர்.
		CO4	:	மேலைநாட்டு அறிஞர்களின் சமூகம் சார்ந்த சிந்தனைக் கோட்பாடுகளை அறிந்து தற்கால வாழ்வில் பொருத்திப் பார்த்து பகுத்தராய்வர்.
		CO5	:	இந்திய அறிஞர்களின் சிந்தனைகளை

				அறிந்து சுயமாக சிந்தனைகளை வெளிப்படுத்தும் திறன் பெறுவர்.
UTAM603	இலக்கியத் திறனாய்வியல்	CO1	:	இலக்கியத்தினை திறனாய்வு செய்யும் நெறிமுறைகள் குறித்து அறிவர்.
		CO2	:	திறனாய்வுக் கோட்பாடுகளை இலக்கியங்களில் எவ்வாறு அணுகுவது என்ற புரிதலைப் பெறுவர்.
		CO3	:	இலக்கியங்களின் பொருண்மைகளை திறனாய்வியல் நோக்கில் பொருத்திப் பார்க்கும் திறன் பெறுவர்.
		CO4	:	திறனாய்வு வகைமைகளைக் கொண்டு இலக்கியங்களை பகுப்பாய்வு செய்யும் திறன் பெறுவர்.
		CO5	:	தமிழில் தோன்றிய அனைத்து இலக்கிய வகைமைகளையும் மதிப்பிடும் திறன் பெறுவர்.
UTAM610	இணையத்தமிழ்	CO1	:	இணையத்தில் தமிழின் தோற்ற நிலை மற்றும் வளர்ச்சி படிநிலைகளை அறிந்து கொள்வர்.
		CO2	:	இணையத்தினை பயன்படுத்தும் முறைகள் இணையத்தில் தமிழின் பங்களிப்புகள் குறித்து புரிந்து கொள்வர்.
		CO3	:	இணையத்தின் தேவைகளை சமூகத்தோடு பொருத்திப் பார்த்து சமுதாயத்தில் இணையத்தின் தேவை குறித்து பொருத்திப் பார்க்கும் ஆற்றல் பெறுவர்.
		CO4	:	இணையம், இணையத்தமிழ், இணையத்தமிழ் இதழ்களின் தேவை மற்றும் பங்களிப்பு நிலைகளை பகுத்து

				ஆராய்வர்.
		CO5	:	தமிழை இணையத்தில் பயன்படுத்தும் நிலைகளை அறிந்து படைப்புகளை தரவேற்றம் செய்யும் ஆற்றல் மற்றும் செயலிகளை உருவாக்கும் திறன்களைப் பெறுவர்.
UTAM607	தண்டியலங்காரம்	CO1	:	இலக்கியங்களில் அணி பயின்று வரும் தனித்துவம் குறித்து அறிந்து கொள்வர்.
		CO2	:	இலக்கியங்களில் அணியின் வகைகள் குறித்து புரிந்து கொள்வர்.
		CO3	:	இலக்கணங்களில் இடம்பெற்றுள்ள உவமைகளை அணிவகைகளுடன் பொருத்திப் பார்க்கும் திறன் பெறுவர்.
		CO4	:	இலக்கணங்களில் பயின்று வரும் அணிகள் குறித்து பகுப்பாய்வு செய்வர்.
		CO5	:	இலக்கண இலக்கியங்களை பிழையின்றி எழுதும் திறன் பெறுவர்.
UTAM609	சங்க இலக்கியம்	CO1	:	அகவாழ்விற்கு உண்டான தனிச் சிறப்புகள் குறித்து அறிந்துக் கொள்வர்.
		CO2	:	இலக்கியங்கள் வெளிப்படுத்தும் மானுட மாண்புகள் பற்றிய புரிதலைப் பெறுவர்.
		CO3	:	இலக்கியங்கள் வழி வாழ்க்கையில் வாழ்க்கை நிலைகளை பொருத்திப் பார்க்கும் தெளிவடைவர்.
		CO4	:	இலக்கியங்களின் வழி அறிந்த வாழ்க்கை நிலை குறித்து காலமாற்றத்திற்கு ஏற்ப பகுத்தாய்ந்து அறிவர்.
		CO5	:	இலக்கியங்கள் வழி பெற்ற கற்றல் அனுபவங்களை நடைமுறை வாழ்வில்

				செயல்படுத்தும் திறன் பெறுவர்.
UTAR601	பயிற்சி பட்டறை - III	CO1	:	மேடைப்பேச்சிற்கான வரைமுறைகள் குறித்து அறிந்து கொள்வர்
		CO2	:	பொது மன்றத்தில் கருத்தை வெளிப்படுத்தும் முறைகள் குறித்து புரிந்து கொள்வர்.
		CO3	:	பேச்சு, நடிப்பு ஆகியவற்றின் சிறப்பியல்புகளை வாழ்க்கையில் பொருத்திப் பார்க்கும் திறன் பெறுவர்.
		CO4	:	மேடைப்பேச்சு, பட்டிமன்றம், நிகழ்ச்சி தொகுப்பு ஆகியவற்றில் உள்ள வேறுபாடுகளை பகுத்து ஆராய்வர்.
		CO5	:	பேச்சு மற்றும் நடிப்புதிறன் சார்ந்த அடிப்படை நுட்பங்களை அறிந்து பேச்சாளராக, நடிப்புதிறன் மிக்கவராக, நாடகங்கள் இயக்குபவராக பணி வாய்ப்பினை பெறுவர்.
UTAO610	புலம்பெயர்வு இலக்கியம்	CO1		புலம்பெயர்ந்த தமிழர்களின் தொடக்காலம் முதல் இக்காலம் வரை உள்ள வரலாற்றினை அறிந்து கொள்வர்.
		CO2		புலம்பெயர்வு இலக்கியங்களின் பங்களிப்பினை படைப் பிலக்கியங்களின் வாயிலாக புரிந்து கொள்வர்.
		CO3		புலம்பெயர்ந்து அயலகங்களில் வாழும் புலம்பெயர்ந்த மக்களின் வாழ்க்கை அனுபவங்களை தாயக வாழ்க்கையுடன் பொருத்திப் பார்க்கும் திறன் பெறுவர்.
		CO4		புலம்பெயர்ந்த தமிழர்களின் தன் தாய் நாட்டில் பின்பற்றிய தனித்துவமிக்க

				அடையாளங்களை பிறநாடுகளுக்கு சென்ற பிறகு கடைபிடிக்கும் முறைகளை பகுத்தாய்வர்.
		CO5		புலம் பெயர்ந்த தமிழர்கள் அயலகங்களில் எதிர்கொள்ளும் வாழ்க்கைச் சார்ந்த சிக்கல்களை மதிப்பிட்டு அறியும் திறன் பெறுவர்.
UTAO611	பெண்ணியப் படைப்புகள்	CO1		பெண்ணியத்தின் தோற்றம் வளர்ச்சி நிலைகளை அறிவர்.
		CO2		பெண்ணியப் படைப்புகளின் வாயிலாக பெண்ணியத்தின் இயல்புகளை புரிந்து கொள்வர்.
		CO3		பெண்ணிய கோட்பாட்டினை காலந்தோறும் பொருத்திப் பார்க்கும் திறன் பெறுவர்.
		CO4		பெண்ணியக் கருத்துக்களை அறிந்து படைப்பிலக்கியங்களில் பகுத்தாராய்வர்.
		CO5		பெண்ணியத்தினை பின்பற்றி சமுதாயத்தில் ஆளுமைத்திறனை பெண்கள் பெறும் வழிமுறைகளை மதிப்பிட்டு அறிவர்.
UTAO612	விளம்பரவியல்	CO1		விளம்பரத்தின் வரலாறு, இயல்பு குறித்து அறிந்து கொள்வர்.
		CO2		விளம்பரத்தினால் விளையும் நன்மை, தீமையைப் புரிந்து கொள்ளும் திறம் பெறுவர்.
		CO3		விளம்பரத்தின் நெறிகளையும், விளம்பரத்திற்கான விதிமுறைகளையும் அறிந்து, விமர்சனத்தின் அடிப்படையில் பொருத்திப் பார்க்கும் ஆற்றல் பெறுவர்.

		CO4		விளம்பர அறங்களை அறிந்து கொண்டு, இன்றைய விளம்பரங்களின் போக்கைப் பகுப்பாய்வு செய்வர்.
		CO5		விளம்பர உத்திகளை அறிந்து கொண்டு, இக்கால தொழில்துறைகளில் புகுத்தி பணி வாய்ப்பினைப் பெறுவர்.

COURSE OUTCOMES – 2021-2022

DEPARTMENT: ENGLISH

Course Code	Course Title	Course Outcome		
UENL109	English for Communication (Stream –I)	CO1	:	Understand of British English through the Indian Standard English
		CO2	:	Apply and Develop skills to community leadership & presentation of ideas.
		CO3	:	Analyze and practice those skills in their daily life under certain circumstances
		CO4	:	Test and pronounce the word properly and correctly
		CO5	:	Design a plan to improve their LSRW skills.
UENL110	English for Communication (Stream – II)	CO1	:	Understand the Context of the Communication.
		CO2	:	Familiarize to Speak Fluently in all Situations.
		CO3	:	Analyze the Context and Reply to it.
UENM110	Indian Writing in English	CO1	:	Provide an Overview of the various Phases of the Evolution of Indian writing in English.
		CO2	:	Analyse the Thematic concerns, Genres and Trends of Indian Writing in English.
		CO3	:	Develop Critical Thinking in Indian Perspective of Literature in Students.
UENM111	British Literature- I	CO1	:	Understand the Purpose of Chaucer's Writing and Analyse the Portraits he painted through his Description.
		CO2	:	Explain the Aphoristic Style and Comprehend the ideas present in Bacon's Essays.
		CO3	:	Appreciate and Critically Analyse the Prescribed Fiction.
UENA104	Literary Forms	CO1	:	Make use of the Literary Techniques and Analyze it in the Poems.
		CO2	:	Acquire Proficiency to Classify Genre used by the Writer.
		CO3	:	Examine the different kinds of Narrative Experiments and the Common LiteraryTechnique.
UPEM101	Professional English –I	CO1	:	Attend interviews with boldness and confidence.
		CO2	:	Adapt easily into the workplace context, having become communicatively competent.
		CO3	:	Apply to the Research &Development organisations/ sections in companies and offices with winning proposals.
UENL209	English for Communication (Stream – I)	CO1	:	Understand the basic Literary Techniques.
		CO2	:	Interpret the literary text based on critical concepts.
		CO3	:	Analyze the text in the broader sense.
		CO4	:	Defend the scope of comparative literature into wider perspectives.
		CO5	:	Develop the scope for research in the context of Comparative studies

COURSE OUTCOMES – 2021-2022

UENL210	English for Communication (Stream – II)	CO1	:	Understand the basic Literary Techniques.
		CO2	:	Interpret the literary text based on critical concepts.
		CO3	:	Analyze the text in the broader sense.
		CO4	:	Defend the scope of comparative literature into wider perspectives.
		CO5	:	Develop the scope for research in the context of Comparative studies
UENM209	British Literature- II	CO1	:	Understand the Characteristics and Themes of the Romantic Age and the Victorian Age.
		CO2	:	Appreciate the value of Simple Life.
		CO3	:	Analyse Individual Narrative, Poetic and Dramatic Texts.
UENM210	American Literature	CO1	:	Understand and Evaluate Poetry of American Writers.
		CO2	:	Understand about the Absurdity of War in Prose.
		CO3	:	Analyse the Class difference in the Drama and its impact on the society.
		CO4	:	Comprehend and evaluate the Short Stories in term of Plot, Character, Theme, Symbol and Setting.
		CO5	:	Understand about the Struggle for Life and Determination from the Novel.
UENA204	Women in Literature	CO1	:	Understand the Multiple aspects in Women in Literature
		CO2	:	Analyze the Text in Feminism Theory with Literature Context and use the Theory in Research.
		CO3	:	Develop the Interpretative Skill through Close Reading.
UPEM201	Professional English –II	CO1	:	Recognise their own ability to improve their own competence in using the language
		CO2	:	Use language for speaking with confidence in an intelligible and acceptable manner
		CO3	:	Understand the importance of reading and writing for life and academic.
		CO4	:	Read independently unfamiliar texts with comprehension
		CO5	:	Write simple sentences without committing error of spelling or grammar
UENE203	Film Studies	CO1	:	Observe with Knowledge and reflect upon the Articulation of a Film's Content, Form and Structure.
		CO2	:	Identify and Define the Formal and Stylistic Elements of Film.
		CO3	:	Develop an Understanding of film Language and Terminology, and Analyze the ways in which that this Language constructs Meaning and Ideology.

COURSE OUTCOMES – 2021-2022

UENE204	Public Speaking	CO1	:	Understand the Goals and Benefits of Public Speaking
		CO2	:	Identify Strategies to prepare and deliver an Informative Speech
		CO3	:	Identify key Principles of Ethical Communication
		CO4	:	Explain how to use Audience Analysis Before, During, and After the Speech.
UENE202	Business Writing	CO1	:	Understand the Business Writing Skills.
		CO2	:	Identify Strategies to Write Business Letters.
		CO3	:	Develop a Suitable Business Writing Skills.
UENL309	General English I	CO1	:	Understand different types of genres in English.
		CO2	:	Use English for global competency.
		CO3	:	Execute effective communication skills.
		CO4	:	Value the grammar in the sentence structures.
		CO5	:	Plan to improve their LSRW skills.
UENL310	Advanced English I	CO1	:	Understand the techniques used in different genres.
		CO2	:	Discuss the varieties of English through inputs in British and American Vocabulary.
		CO3	:	Analyze the productivity of language in scientific ways.
		CO4	:	Appraise the work of literature.
		CO5	:	Construct different style of language and to communicate professionally.
UENM307	Language and Linguistics	CO1	:	Understand the concepts of linguistics
		CO2	:	Discuss the basic symbols of the International Phonetic Alphabet.
		CO3	:	Demonstrate intrinsic values of language usage.
		CO4	:	Argue the various aspects of articulation effects.
		CO5	:	Design structures of modern English and to write transcription.
UENM308	Introduction to Comparative Literature	CO1	:	Understand the basic Literary Techniques.
		CO2	:	Interpret the literary text based on critical concepts.
		CO3	:	Analyze the text in the broader sense.
		CO4	:	Defend the scope of comparative literature into wider perspectives.
		CO5	:	Develop the scope for research in the context of Comparative studies
UENA304	Introduction to English Language Teaching	CO1	:	Describe English language proficiency in the aspects of reading, writing, listening and speaking.
		CO2	:	Recognize academic literacy required for undergraduate learning further studies and research.
		CO3	:	Apply the requisite communicative skills and strategies to future careers.
		CO4	:	Value varied range of vocabulary.
		CO5	:	Develop the English Language Teaching Skills.
UENL409	General English-II	CO1	:	Understand the basics of literature.
		CO2	:	Discuss the manifold shades of literature.
		CO3	:	Implement the technique of writing and to polish

				the standard of Grammar.
		CO4	:	Compare the socio- cultural aspects of the writers.
		CO5	:	Assess the plot, characterization, themes and techniques of literature.
		CO1	:	Understand the basics of literature.
UENL410	Advanced English-II	CO1	:	Understand the techniques used in different genres.
		CO2	:	Discuss the varieties of English through inputs in British and American Vocabulary.
		CO3	:	Analyze the productivity of language in scientific ways.
		CO4	:	Appraise the work of literature.
		CO5	:	Construct different style of language and to communicate professionally.
UENM409	Cinema and Literature	CO1	:	Understand the elements involved in adapting texts to film.
		CO2	:	Implement analytical skills in visual literacy and reading text.
		CO3	:	Relate films as reflections of cultures and source texts.
		CO4	:	Defend the processes and practice of writing for the media.
		CO5	:	Construct the meaning of films beyond the surface level of narrative or character.
UENM408	Shakespeare	CO1	:	Recognize the religious and philosophical insight through dramatic monologues.
		CO2	:	Explain the writers' vision for the betterment of mankind
		CO3	:	Examine the values and ideas propagated by the Victorian era.
		CO4	:	Critique several social problems in England.
		CO5	:	Construct human values and ethics in real life.
UENA404	Phonetics and Spoken English	CO1	:	Understand the concepts of linguistics and its components
		CO2	:	Discuss the basic symbols of the International Phonetic Alphabet.
		CO3	:	Demonstrate intrinsic values of language usage.
		CO4	:	Argue the various aspects of articulation effects.
		CO5	:	Design structures of modern English and to write transcription.
ENE401	One act play	CO1	:	Recall the effects of one act plays on other literature.
		CO2	:	Discuss the themes of one act plays of different cultures.
		CO3	:	Demonstrate familiarity with key elements of dramas.
		CO4	:	Relate the genre to non-dramatic forms of cultural expression such as poetry and literature.
		CO5	:	Design theatrical techniques in one act plays.
UENM402	Media Writing	CO1	:	Understand the importance of media writing.

		CO2	:	Familiarize with media writing skills
		CO3	:	Express clearly both in oral and written format
		CO4	:	Think critically, creatively and independently
		CO5	:	Create good content for blogs.
PENM118	British Literature – I	CO1	:	Understand the Purpose of Chaucer's Writing and Analyse the Portraits he painted through his Description.
		CO2	:	Appreciate the Aphoristic Style and Comprehend the Ideas present in Restoration AgeProse.
		CO3	:	Critically analyze the Text and Interpret.
PENM119	American Literature	CO1	:	Understand the History of American Literature and its Literary Techniques
		CO2	:	Appreciate the American Culture and Comprehend the Ideas Present in its Writings.
		CO3	:	Critically analyze the Prescribed Fiction.
PENM120	Advanced English Grammar	CO1	:	Understand the Basic Structure of Grammar.
		CO2	:	Experiment with new Kinds of Writing.
		CO3	:	Write error Free Language.
PENM121	Literary Criticism	CO1	:	Evaluate the Literary Work based on Different Approaches.
		CO2	:	Experiment with new Perspectives to Analyse the Literature.
		CO3	:	Approach the Text Critical View.
PENM122	Human Rights and Subaltern Literature	CO1	:	Understand and Follow 'Rights Based Approach'.
		CO2	:	Understand the Hardship of Subaltern People.
		CO3	:	Analyse Subaltern life Style and their Identity Crisis.
PENM218	British Literature – II	CO1	:	Identify and Define the Basic Terms and Concepts which are needed for AdvancedCourses in British Literature.
		CO2	:	Write a Brief Essay describing the Distinct Features of the Important works ofMainstream Writers from Enlightment Age and Twentieth Century.
		CO3	:	Analyze and Interpret Seminal Poetry of the Period with Close Reading.
PENM219	Literatures inTranslation	CO1	:	Understand the Richness of other Cultures.
		CO2	:	Evaluate the Reflections of Tradition in Translated Works.
		CO3	:	Analyse the Theme of Translated Works and Experience the Art of Translation
PENM220	Women and Literature	CO1	:	Define & Develop Women Oriented Course and extends its perspective that paves way for further research in domains of women & Literature.
		CO2	:	Understand the plight and prejudice against women and expose it in unbiased manner.
		CO3	:	Illustrate the women characters in terms of social and political background.

		CO4	:	Analyze the representation of women caricatured by writers of different literature.
		CO5	:	Recommend the scope of women writing into wider perspectives.
PENM221	Principles and Methods of ELT	CO1	:	Understand the Principles of course Designing and Testing and Evaluation.
		CO2	:	Acquire the ways of Teaching English as a Second Language
		CO3	:	Analyze the role of a learner's mother tongue in second language acquisition
PENM222	Applied Linguistics	CO1	:	Understand the key Concepts in Applied Linguistics.
		CO2	:	Appreciate the Interdisciplinary Nature of Linguistics
		CO3	:	Identify an area within the Field of Applied Linguistics
PENE203	Academic Writing	CO1	:	Produce Standard Academic Work
		CO2	:	Refine and Improve their Language Style
		CO3	:	Evaluate the strengths and weaknesses of different theories or perspectives.
PENE202	Copy Editing	CO1	:	Use the strategies in the process of Copy Editing.
		CO2	:	Produce Standard Academic Book without Errors.
		CO3	:	Explain the process of capturing text electronically for editing purposes.
PENM316	Post-colonial literature	CO1	:	Understand the historical background of colonization and its effects on Literature.
		CO2	:	Apply the Postcolonial concepts like identity, Hybridity on Canonical mainstream texts.
		CO3	:	Analyze the narrative strategies and predominant themes employed in postcolonial historiography.
		CO4	:	Evaluate the conditions and plights of natives under Neo- colonialism and Nationalism.
		CO5	:	Develop and improvise the scope for research in the context of Postcolonial studies.
PENM317	Feminist Theories	CO1	:	Understand the significance of feministic theories.
		CO2	:	Apply the patterns and concepts of feministic literature
		CO3	:	Analyse voice against patriarchal society through their own writings.
		CO4	:	Evaluate the conditions and plights of Women through critical light
		CO5	:	Develop and improvise the scope for research in the context of feminist studies.
PENM318	Ecology and Literature	CO1	:	Describe the contemporary ecological concerns, methods and theories incorporated into literature
		CO2	:	Discuss the environmental issues through literary narratives
		CO3	:	Apply the environmental concerns and its impact on literature
		CO4	:	Examine the way Nature/ Environment is

				understood, imagined and made in literature
		CO5	:	Construct the environmental crises through different genres of literature
PENI302	Translation studies	CO1	:	Record and appreciates translated genres.
		CO2	:	Apply the different theories of translation in their research work.
		CO3	:	Explain & interpret texts from multilingual country like India.
		CO4	:	Analyze the history of translation by studying the texts belonging to various ages.
		CO5	:	Judge & interpret problems in translation studies
PRMC301	Research Methodology	CO1	:	Discuss research articles and papers.
		CO2	:	Sketch a literature review.
		CO3	:	Organize research questions to do better research.
		CO4	:	Appraise a research proposal or industry project plan.
		CO5	:	Design the collection methods and ethics proposals.
PENM415	Literary Theory and Practice	CO1	:	State the issues discussed in the text in the socio-historic & cultural context.
		CO2	:	Discuss languages of different cultures.
		CO3	:	Sketch the elements of Literary text such as narrative techniques, setting, point of view and style.
		CO4	:	Compare with diverse literary concepts written in various languages & translated by different writers.
		CO5	:	Construct knowledge & skills of translation in English.
PENM416	Shakespearean Studies	CO1	:	Describe the theories, concepts, methods used in cultural studies framework.
		CO2	:	Interpret different approaches, concepts, and theoretical legacies in the interdisciplinary field of cultural studies.
		CO3	:	Apply the impact of the economic, social and political environment from a global, national and regional level.
		CO4	:	Determine the concepts of cultural studies in different literatures.
		CO5	:	Formulate the ideas of cultural diversity and socio-economic change at the local, national and global level.
PENM417	North- East Literature	CO1	:	Discuss the various trends and genre of literature of the sister states in the north east.
		CO2	:	Understand the diversity of Indian literature and the similarities between them.
		CO3	:	Apply the aesthetic experience of North East Indian literature
		CO4	:	Judge the contemporary trans-cultural issues
		CO5	:	Investigate the diversity of India there by fostering an accommodative attitude of fraternity.
	Single Author Study	CO1	:	State the writing pattern of individual writers

PENM418	(Women): Nobel and Booker Prize Winners	CO2	:	Understand the unique features, symbols and themes of the prescribed writer
		CO3	:	Apply theoretical approaches to the reading.
		CO4	:	Analyse feministic literature
		CO5	:	Construct their own literary texts to redefine the role of women in society.
PENM419	Cultural Studies	CO1	:	Describe the theories, concepts, methods used in cultural studies framework.
		CO2	:	Interpret different approaches, concepts, and theoretical legacies in the interdisciplinary field of cultural studies.
		CO3	:	Apply the impact of the economic, social and political environment from a global, national and regional level.
		CO4	:	Determine the concepts of cultural studies in different literatures.
		CO5	:	Formulate the ideas of cultural diversity and socio-economic change at the local, national and global level.

DEPARTMENT: BUSINESS ADMINISTRATION

Course Code	Course Title	Course Outcome		
UBAM109	Business Communication	CO1	:	Identify other Common methods of Professional Communication.
		CO2	:	Discuss the Importance of Communication Ethics in Business Communication.
		CO3	:	Determine the Appropriate Communication Channel for a Specific Type of Message.
UBAM108 UCOM104 UCCM102	Financial Accounting	CO1	:	Identify and define pertinent research questions
		CO2	:	Critically review the relevant literature
		CO3	:	Define an appropriate methodology
UCEA103	Business Economics	CO1	:	Understand the roles of managers in firms.
		CO2	:	Analyze the demand and supply conditions and assess the position of a company.
		CO3	:	Design competition strategies, including Cost, Pricing, and Product differentiation
UBAM209	Advertising And Sales Promotion	CO1	:	Promote an Overall Image of Respect and Trust for an Organization.
		CO2	:	Motivate Distributors, to Create or Change a Company's Image.
		CO3	:	Create or Change a Buyer's Attitude.
UBAM207	Principles Of Management	CO1	:	Describe the influence of historical forces on the current practice of management.
		CO2	:	Identify and evaluate social responsibility and ethical issues.
		CO3	:	Identify and properly use vocabularies within the

				field of management
UBAR201	Workshop On Decision Making Skills	CO1	:	Understand and evaluate the decision to be made and the potential outcomes.
		CO2	:	Classify the decision and what the important factors are.
		CO3	:	Structure their approach to making decisions.
		CO4	:	Evaluate options against set criteria and avoid typical decision making traps.
UBAE202	Leadership Skills	CO1	:	Understand Personal skills and styles.
		CO2	:	Develop mentor/mentee relationships.
		CO3	:	Understand and react to contextual influence.
UBAE203	Team Building	CO1	:	Understand Every Individual's Strengths and Weaknesses.
		CO2	:	Use Positive Impacts for the Productivity of Employees.
		CO3	:	Develop High Confidence and Productivity Levels.
UBAM308	Marketing Management	CO1	:	Identify the scope and significance of marketing in domain industry.
		CO2	:	Understand the fundamental concepts of marketing
		CO3	:	Demonstrate the marketing communication skills relevant to the corporate world.
		CO4	:	Execute the various elements of marketing to develop a marketing plan.
		CO5	:	Analyze global business opportunities and its implications on a firm's marketing strategy.
UBAM310 UCOM305 UCCM305	Cost Accounting	CO1	:	Understand various costing systems.
		CO2	:	Identify the specifics of different costing methods.
		CO3	:	Apply cost accounting methods for both manufacturing and service industry.
		CO4	:	Differentiate methods of schedule costs as per unit of production.
		CO5	:	Evaluate and provide recommendations to improve the operations of organizations through the application of Cost and Management accounting techniques.
UBAM312	Creativity For Innovative Management	CO1	:	Define the factors that predict creativity of individuals, groups, and organizations.
		CO2	:	Understand innovation and creativity management from the
		CO3	:	Perspective of obtaining a sustainable competitive advantage and integrating innovation into the business strategy.
		CO4	:	Recognize the role that ongoing innovation plays in the competitive dynamics of industries and how these innovations affect society both positively and negatively.

		CO5	:	Analyse the factors and drivers that predict creativity and innovation of individuals, groups, and organizations.
UBAM313	Organizational Behavior	CO1	:	Identify the characteristics of successful teams in order tofunction effectively as a team members and leaders.
		CO2	:	Apply different motivational theories and methods to increase the productivity and job satisfaction of employees.
		CO3	:	Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.
		CO4	:	Appraise their ability to manage, lead and work with otherpeople in an organizational setting.
		CO5	:	Evaluate ethical issues as related to organizational behavior.
UBAM405	Production & Materials Management	CO1	:	Understand the scope for integrating materials management function over the logistics and supply chain operations.
		CO2	:	Identify, study, compare, and evaluate alternatives, selectand relate with a good supplier.
		CO3	:	Apply the various purchasing method and inventory controlling techniques into practice.
		CO4	:	Demonstrate the organization wide materials requirementto develop an overall plan (MRP).
		CO5	:	Analyzing the materials in storage, handling, packaging, shipping distributing and standardizing
UBAM408	Micro, Small And Medium Enterprises	CO1	:	Identity the new entrepreneurial opportunities for Employability.
		CO2	:	Understand the opportunities to Set-Up SSI/MSME Units and role of entrepreneurship.
		CO3	:	Analyze the firm's internal environment, competitive environment, and firm's suitability/eligibility to tap the benefits of supports or fund available under different government schemes and initiatives.
		CO4	:	Examine the required skills and competencies for starting new entrepreneurship.
		CO5	:	Evaluate role of government in promoting entrepreneurship
UBAM407	Human Resource Management	CO1	:	Understand the employment relationship, which is a sharedresponsibility between employers, management, human resources specialists, and employees.
		CO2	:	Identify the human resources needs of an organization ordepartment.
		CO3	:	Apply a job analysis and produce a job

				description from the job analysis.
		CO4	:	Analyze the procedures and practices used for recruiting and selecting suitable employees
		CO5	:	Develop the knowledge, skills and concepts needed to resolve actual human resource management problems or issues
UBAM409	Management Information System	CO1	:	Understand the role of the ethical, social, and security issues of information systems.
		CO2	:	Apply the understanding of how various information systems like DBMS work together to accomplish the information objectives of an organization.
		CO3	:	Relate the basic concepts and technologies used in the field of management information systems.
		CO4	:	Compare the processes of developing and implementing information systems.
		CO5	:	Evaluate the role of information systems in organizations, the strategic management processes, with the implications for the management.
UBAE404	Rural Management	CO1	:	Discuss rural market Challenges & Opportunities in a dynamic market.
		CO2	:	Explain and interpret Rural Marketing Evolution and Structure
		CO3	:	Apply the concepts relating to Women Empowerment.
		CO4	:	Differentiate and design marketing strategies for rural specific products.
		CO5	:	Evaluate and interpret the relevance of pricing and distribution strategies.
UBAM109	Business Communication	CO1	:	Identify other Common methods of Professional Communication.
		CO2	:	Discuss the Importance of Communication Ethics in Business Communication.
		CO3	:	Determine the Appropriate Communication Channel for a Specific Type of Message.
UBAM101 UCOM104 UCCM102	Financial Accounting	CO1	:	Identify and define pertinent research questions
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		CO3	:	Define an appropriate methodology
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		CO3	:	Identify and properly use vocabularies within the field of management
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		CO2	:	Classify the decision and what the important factors are..
		CO3	:	Structure their approach to making decisions.
		CO4	:	Evaluate options against set criteria and avoid typical decision making traps.
UBAE202	Leadership Skills	CO1	:	Understand Personal skills and styles.
		CO2	:	Develop mentor/mentee relationships.
		CO3	:	Understand and react to contextual influence.
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		CO2	:	Use Positive Impacts for the Productivity of Employees.
		CO3	:	Develop High Confidence and Productivity Levels.
UBAM308	Marketing Management	CO1	:	Identify the scope and significance of marketing in domain industry.
		CO2	:	Understand the fundamental concepts of marketing
		CO3	:	Demonstrate the marketing communication skills relevant to the corporate world.
		CO4	:	Execute the various elements of marketing to develop a marketing plan.
		CO5	:	Analyze global business opportunities and its implications on a firm's marketing strategy.
UBAM310/ UCOM305/ UCCM305	Cost Accounting	CO1	:	Understand various costing systems.
		CO2	:	Identify the specifics of different costing methods.
		CO3	:	Apply cost accounting methods for both manufacturing and service industry.
		CO4	:	Differentiate methods of schedule costs as per unit of production.
		CO5	:	Evaluate and provide recommendations to improve the operations of organizations through the application of Cost and Management accounting techniques.
UBAM312	Creativity For Innovative Management	CO1	:	Define the factors that predict creativity of individuals, groups, and organizations.
		CO2	:	Understand innovation and creativity management from the
		CO3	:	perspective of obtaining a sustainable

				competitive advantage and integrating innovation into the business strategy.
		CO4	:	Recognize the role that ongoing innovation plays in the competitive dynamics of industries and how these innovations affect society both positively and negatively.
		CO5	:	Analyse the factors and drivers that predict creativity and innovation of individuals, groups, and organizations.
UBAM313	Organizational Behavior	CO1	:	Identify the characteristics of successful teams in order to function effectively as a team members and leaders.
		CO2	:	Apply different motivational theories and methods to increase the productivity and job satisfaction of employees.
		CO3	:	Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.
		CO4	:	Appraise their ability to manage, lead and work with other people in an organizational setting.
		CO5	:	Evaluate ethical issues as related to organizational behavior.
UBAM405	Production & Materials Management	CO1	:	Understand the scope for integrating materials management function over the logistics and supply chain operations.
		CO2	:	Identify, study, compare, and evaluate alternatives, select and relate with a good supplier.
		CO3	:	Apply the various purchasing method and inventory controlling techniques into practice.
		CO4	:	Demonstrate the organization wide materials requirement to develop an overall plan (MRP).
		CO5	:	Analyzing the materials in storage, handling, packaging, shipping distributing and standardizing
UBAM408	Micro, Small And Medium Enterprises	CO1	:	Identity the new entrepreneurial opportunities for Employability.
		CO2	:	Understand the opportunities to Set-Up SSI/MSME Units and role of entrepreneurship.
		CO3	:	Analyze the firm's internal environment, competitive environment, and firm's suitability/eligibility to tap the benefits of supports or fund available under different government schemes and initiatives.
		CO4	:	Examine the required skills and competencies for starting new entrepreneurship.
		CO5	:	Evaluate role of government in promoting entrepreneurship
UBAM407	Human	CO1	:	Understand the employment relationship,

	Resource Management			which is a shared responsibility between employers, management, human resources specialists, and employees.
		CO2	:	Identify the human resources needs of an organization or department.
		CO3	:	Apply a job analysis and produce a job description from the job analysis.
		CO4	:	Analyze the procedures and practices used for recruiting and selecting suitable employees
		CO5	:	Develop the knowledge, skills and concepts needed to resolve actual human resource management problems or issues
UBAM409	Management Information System	CO1	:	Understand the role of the ethical, social, and security issues of information systems.
		CO2	:	Apply the understanding of how various information systems like DBMS work together to accomplish the information objectives of an organization.
		CO3	:	Relate the basic concepts and technologies used in the field of management information systems.
		CO4	:	Compare the processes of developing and implementing information systems.
		CO5	:	Evaluate the role of information systems in organizations, the strategic management processes, with the implications for the management.
UBAE404	Rural Management	CO1	:	Discuss rural market Challenges & Opportunities in a dynamic market.
		CO2	:	Explain and interpret Rural Marketing Evolution and Structure
		CO3	:	Apply the concepts relating to Women Empowerment.
		CO4	:	Differentiate and design marketing strategies for rural specific products.
		CO5	:	Evaluate and interpret the relevance of pricing and distribution strategies.

DEPARTMENT: COMMERECE

Course Code	Course Title	Course Outcome		
UCOM104 UCCM102	Financial Accounting	CO1	:	Prepare Trading, Profit & Loss Account and Balance Sheet.
		CO2	:	Prepare Branch Accounts, Departmental Accounts and Partnership Accounts.
UCEA103	Business Economics	CO1	:	Forecast Demand for goods.
		CO2	:	Determine Break Even Price.
		CO3	:	Make Capital Budgeting decisions.
UMAA112	Business Mathematics	CO1	:	Understand the Basics of Marketing Mathematics.

		CO2	:	Apply the Knowledge in Mathematics in Solving Business Problems.
		CO3	:	Demonstrate the Mathematical Skills in Economics and Business.
UCOM204 UCCM203	Business Correspondence	CO1	:	Develop both Written and Oral Communication Skills to Produce Clear, Complete, Accurate Messages.
		CO2	:	Prepare Different Types of Business Letters, Reports and Business Correspondence
UCOM206 UCCM206	Management Accounting	CO1	:	Prepare Comparative Statement and Common Size Statement.
		CO2	:	Prepare Cash Flow Statement and Fund Flow Statement
		CO3	:	Prepare Different Types of Budgets for the Business.
UCEA202	Indian Economic Development	CO1	:	Analyze the Impact of Liberalization, Privatization and Globalization Policies on Indian Economy.
		CO2	:	Compare the Public and Private Sectors.
UCOR206/ UCCR206/ UIAR203	Industry Interface Programme I – Banking and Insurance	CO1	:	Draft Application for Availing any Banking and Insurance Services.
		CO2	:	Draft Banking Correspondence and Insurance Correspondence.
UCOM309/ UCCM309/ UBAM310	Cost Accounting	CO1	:	Compute various elements of costs
		CO2	:	Apply costing techniques to control costs
		CO3	:	Examine various methods of pricing issues
		CO4	:	Acquire the ability to determine price of goods and service
		CO5	:	Develop industry specific costs accounting skills
UCOM306/ UCCM 306/ UBAM 308	Marketing Management	CO1	:	Identify the scope and significance of Marketing in Industry
		CO2	:	Practice marketing communication skills relevant to the corporate world.
		CO3	:	Demonstrate an understanding of fundamental concepts of marketing
		CO4	:	Analyze global business opportunities and its implications on a firm's marketing strategy.
		CO5	:	Integrate various elements of marketing to develop a marketing
UCOM 308/ UCCM3 08	Accounting for Non - Trading Concerns	CO1	:	Prepare receipt and payment accountant
		CO2	:	Differentiate receipt & payment accountant and income expenditure account
		CO3	:	Explain advantage and limitations of receipts and payment account
		CO4	:	Evaluate sources of income for non trading concerns
		CO5	:	Acquire the accounting knowledge for charitable institutional

COURSE OUTCOMES – 2021-2022

UCOM413	Banking Law & Practice	CO1	:	Explain the relationship between banker and customers
		CO2	:	Examine the role of paying and collecting bankers
		CO3	:	Appraise electronic payment system
		CO4	:	Apply the knowledge to solve customer grievances
		CO5	:	Develop E- Banking skills
UCOM414/ UCCM414	Corporate Accounting	CO1	:	Explain the accounting aspects of Redemption of Preferenceshares
		CO2	:	Examine the Restructuring of capital structure of Public Company
		CO3	:	Discuss the procedure involved in Amalgamation ofcompanies
		CO4	:	Develop corporate accounting skills
		CO5	:	Evaluate financial statements of company within the framework of Ind AS
UCOM409/ UCCM409	Business Law	CO1	:	Understand the legal and fiscal structure of different forms of business organizations and their responsibilities as anemployer.
		CO2	:	Apply the global business laws to current business environment
		CO3	:	Analyze the principle of international business and strategies adopted by firms to expand globally
		CO4	:	Identify the fundamental legal principles behind contractualagreements
		CO5	:	Explain the basic elements of forming enforceable contract andagreement
UCOR413/ UCCR411 UIAR404	Industry Interface Programme II – Stock Market & Mutual Fund	CO1	:	Identify appropriate Banking and insurance schemes
		CO2	:	Apply the knowledge to Deposit, and avail loan from banks andinsurance Companies
		CO3	:	Explain the procedure for Electronic fund transfer
		CO4	:	Discuss the functions of Banks, NBFC's and Insurance Companies
		CO5	:	Develop documentation Skills
		CO6	:	Acquire practical Exposure on Banking and insurance
UCOM412 / UCCM412	Security Analysis & Portfolio Management	CO1	:	Compute risk and return of securities
		CO2	:	Apply the knowledge of fundamental analysis for making investment decisions
		CO3	:	Apply the knowledge of technical analysis for making investment decisions
		CO4	:	Explain trading and operational mechanism of stock exchanges
		CO5	:	Evaluate portfolio performance

COURSE OUTCOMES – 2021-2022

DEPARTMENT: COMMERECE WITH COMPUTER APPLICATION

Course Code	Course Title	Course Outcome		
UCCM309 UCOM309	Cost Accounting	CO1	:	Compute various elements of costs
		CO2	:	Apply costing techniques to control costs
		CO3	:	Examine various methods of pricing issues
				Acquire the ability to determine price of goods and service
				Develop industry specific costs accounting skills
UCCM306/ UCOM306/ UBAM308	Marketing Management	CO1	:	Identify the scope and significance of Marketing in Industry
		CO2	:	Practice marketing communication skills relevant to the corporate world.
		CO3	:	Demonstrate an understanding of fundamental concepts of marketing
		CO4	:	Analyze global business opportunities and its implications on afirm's marketing strategy.
		CO5	:	Integrate various elements of marketing to develop a marketing
UCCM308/ UCOM308	Accounting for Non -Trading Concerns	CO1	:	Prepare receipt and payment accountant
		CO2	:	Differentiate receipt & payment accountant and income expenditure account
		CO3	:	Explain advantage and limitations of receipts and paymentaccount
		CO4		Evaluate sources of income for non-trading concerns
		CO5		Acquire the accounting knowledge for charitable institutional
UCCM413	e-Banking	CO1	:	Explain the relationship between banker and customers
		CO2	:	Acquire knowledge on modern banking service like E-banking, M- banking, etc.,
		CO3	:	Apply cash management techniques in an electronicinterface.
		CO4	:	Evaluate performance of digital banking
		CO5	:	Develop e -banking skills
UCCM414/ UCOM414	Corporate Accounting	CO1	:	Explain the accounting aspects of Redemption of Preferenceshares
		CO2	:	Examine the Restructuring of capital structure of PublicCompany
		CO3	:	Discuss the procedure involved in Amalgamation ofcompanies

		CO4	:	Develop corporate accounting skills
		CO5	:	Evaluate financial statements of company within the framework of Ind AS
UCOM409 / UCCM409	Business Law	CO1	:	Understand the legal and fiscal structure of different forms of business organizations and their responsibilities as anemployer.
		CO2	:	Apply the global business laws to current business environment
		CO3	:	Analyze the principle of international business and strategies adopted by firms to expand globally
		CO4	:	Identify the fundamental legal principles behind contractualagreements
		CO5	:	Explain the basic elements of forming enforceable contract andagreement
UCCR411/ UCOR413/ UIAR404	Industry Interface Programme II – Stock Market and Mutual Fund	CO1	:	Identify appropriate Banking and insurance schemes
		CO2	:	Apply the knowledge to Deposit, and avail loan from banks andinsurance Companies
		CO3	:	Explain the procedure for Electronic fund transfer
		CO4	:	Discuss the functions of Banks, NBFC's and Insurance Companies
		CO5	:	Develop documentation Skills
UCOM412 /UCCM412	Security Analysis & Portfolio Management	CO1	:	Compute risk and return of securities
		CO2	:	Apply the knowledge of fundamental analysis for making investment decisions
		CO3	:	Apply the knowledge of technical analysis for making investment decisions
		CO4	:	Explain trading and operational mechanism of stock exchanges
		CO5	:	Evaluate portfolio performance
		CO1	:	

DEPARTMENT: COMMERECE WITH INTERNATIONAL ACCOUNTING & TAXATION

Course Code	Course Title	Course Outcome		
UIAM301	Management Accounting – I	CO1	:	Understand and Apply Modern Techniques of Management Accounting.
		CO2	:	Apply Decision Making Techniques in the Context of Resource Optimization, RiskMitigation
UIAM302	International Marketing	CO1	:	Develop International Marketing Strategies for Consumer Products Firms, Industrial Products Firms and Services Firms.

		CO2	:	Decide the Appropriate way of Entering Chosen Foreign Markets.
UIAM303	Global Financial Markets	CO1	:	Deal in Foreign Exchange Market, Money Market and Capital Market.
		CO2	:	Examine the Nature and Importance of the International Banking Business.
UIAM304	International Taxation	CO1	:	Apply International Tax Legislations for Tax Planning

MCOM

Course Code	Course Title	Course Outcome		
PCOM102	Business Environment & Policy	CO1	:	Understand The Impact of Business Environment and Policy On Indian Business.
		CO2	:	Analyse the Role of Socio- Cultural and Global Factors on the Development of Economy and Business.
		CO3	:	Apply the Trade Policy and Foreign Investment Policy on Different Sectors.
PCOM104	Financial Policies and Decision Making	CO1	:	Take Financial Decision Using Capital Budgeting Techniques
		CO2	:	Compute The Cost of Equity and Debt Capital
PCOM105	Strategic Management	CO1	:	Understand The Basic Concepts and Principles of Strategic Management Analyse The Internal and External Environment of Business
		CO2	:	Develop and Prepare Organizational Strategies that will be Effective for the CurrentBusiness Environment
		CO3	:	Devise Strategic Approaches to Managing a Business Successfully in a Global Context
PCOM107	Corporate Governance & Business Ethics	CO1	:	Critically Evaluate The Theory of Corporate Governance and Apply this Theory in Analyzing Corporate Structures, Board Composition and how Boards of Directors Conduct their Affairs.
		CO2	:	Critically Evaluate the Range of Ethical Issues that Arise in Management and Business Organizations.
PCOM108	Computerized Accounting	CO1	:	Create Company, Groups, Ledger and Vouchers in Accounting Software.
		CO2	:	Prepare Financial Statements and Final Accounts in Tally.
		CO3	:	Prepare Inventory Report, Cost Report, Pay Roll and Tax Reports in Tally.
PCOR109	Computerized Accounting – Lab	CO1	:	Create Company, Groups, Ledger and Vouchers in Accounting Software.
		CO2	:	Prepare Financial Statements and Final Accounts in Tally.
		CO3	:	Prepare Inventory Report, Cost Report, Pay Roll and Tax Reports in Tally.

COURSE OUTCOMES – 2021-2022

PCOM202	Global Marketing	CO1	:	Understand Major Issues Related to International Marketing
		CO2	:	Analyze Trends in Global Markets and in Modern Marketing Practice
		CO3	:	Assess an Organization's Ability to Enter and Compete in International Markets.
PCOM208	Advanced Accounting	CO1	:	Prepare Final Accounts of Banking and Insurance Companies.
		CO2	:	Prepare Final Accounts of Electricity Companies.
		CO3	:	Prepare Inflation Accounts.
PCOM210	Derivatives and Risk Management	CO1	:	Analyse Price Diverse Derivative Products to Generate an Optimal Risk ManagementStrategy.
		CO2	:	Demonstrate Critical Thinking, Analytical and Problem Solving Skills in the Context of Derivatives Pricing and Hedging Practice.
		CO3	:	Explain the Binomial Model and Its Extension in Continuous Time to the Black &Scholes Model.
PCOE202	Export and Import Procedures	CO1	:	Undertake Export and Import Business
		CO2	:	Apply the Documentation Formalities in to Export and Import Transactions.
PCOE203	Accounting Package	CO1	:	Create Company, Groups, Ledger and Vouchers in Accounting Software.
		CO2	:	Prepare Financial Statements and Final Accounts in Tally.
		CO3	:	Prepare Inventory Vouchers and Stock Groups in Tally.
PCOM309	Service Marketing	CO1	:	Examine the nature of services, and distinguish between products and services.
		CO2	:	Identify the major elements needed to improve the marketing of services
		CO3	:	Develop an understanding of the roles of relationship marketing and customer service in adding value to the customer's perception of a service.
		CO4	:	Explain the different types of service marketing.
		CO5	:	Evaluate marketing of financial services.
PCOM305	Income Tax & International Taxation	CO1	:	Identify the head-wise taxable income
		CO2	:	Apply income tax provisions for tax planning.
		CO3	:	Acquire knowledge on canons of taxation.
		CO4	:	Explain the head-wise deductions allowed.
		CO5	:	Examine the allowed and disallowed business expenses.
PCOM306	Contemporary Business Legislations	CO1	:	Identify factors influencing economic development
		CO2	:	Apply the knowledge of FEMA in the Management foreign exchange
		CO3	:	Examine powers and duties of CCI
		CO4	:	Explain the importance of environment and

				consumer production
		CO5	:	Discuss various types of IPR
RMC301	Research Methodology in Commerce	CO1	:	Discuss research articles and papers.
		CO2	:	Sketch a literature review.
		CO3	:	Organize research questions to do better research.
		CO4	:	Appraise a research proposal or industry project plan.
		CO5	:	Design the collection methods and ethics proposals.
PCID302	E- Commerce	CO1	:	Evaluate the major types of E-commerce.
		CO2	:	Explain the process that should be followed in building an E- commerce presence
		CO3	:	Identify the key security threats in the E-commerce environment.
		CO4	:	Examine how procurement and supply chains relate to B2B E-commerce
		CO5	:	Appraise different types of marketing strategies
PCOM411	Human Resource Development	CO1	:	Appraise the performance of employees
		CO2	:	Develop Ability to handle employee issues
		CO3	:	Evaluate the new trends in HRD
		CO4	:	Explain HRD from micro and macro perspectives
		CO5	:	Discuss importance of HR Training and Development
PCOM410	Logistics Management	CO1	:	Explain the role of logistics in supply chain management
		CO2	:	Examine the different types warehouses and transportations
		CO3	:	Analyze benefits and challenges of E- Logistics
		CO4	:	Evaluate government policies for logistics
		CO5	:	Develop Logistics and supply chain management skills
PCOM408	Goods and Service Tax (GST)	CO1	:	Acquire knowledge on GST
		CO2	:	Develop taxation skills
		CO3	:	Evaluate various types of GST
		CO4	:	Explain advantages and disadvantages of GST
		CO5	:	Discuss the procedures under GST Act
PCOM409	Advanced Cost & Management Accounting	CO1	:	Identify relevant and irrelevant cost for decision making
		CO2	:	Apply appropriate methods of costing for cost reduction
		CO3	:	Examine various methods of budgetary control
		CO4	:	Explain the breakeven analysis
		CO5	:	Discuss the importance of fund flow and cash flow statement
PCOR409	Accounting Package in GST	CO1	:	Explain the various kinds of stock groups in Tally
		CO2	:	Apply the knowledge in creating vouchers
		CO3	:	Examine the ability to prepare final accounts.

		CO4	:	Discuss the importance of computerized accounting.
		CO5	:	Compute GST Liability and prepare GST Return in Tally

DEPARTMENT: PHYSICS

Course Code	Course Title	Course Outcome		
UPHM106	Properties of Matter	CO1	:	Evaluate the Strength of the Solid Materials of Different Size.
		CO2	:	Create the Streamline, Turbulent Flow of Liquids and Ultrasound.
UPHM107	Mechanics	CO1	:	Relate the Elementary Mathematics along with Physical Principles to Effectively Solve Problems Encountered in Everyday Life
		CO2	:	Evaluate the Dynamics of Rigid Bodies and Fluids.
UPHR102/ UPHR202	Major Practical I	CO1	:	Demonstrate Knowledge and Comprehension of the Basic of Physics.
		CO2	:	Develop Independent Problem Solving Skills.
UPHM204	Thermal and Statistical Physics	CO1	:	Categorize the Applications of Thermodynamics to Heat Engines and the Working Principle of Refrigerator.
		CO2	:	Evaluate the Concepts of Entropy, Thermodynamic Probability and Statistical Physics
		CO3	:	
UPHM205	Optics	CO1	:	Solve Problems in Optics by Selecting the Appropriate Equations and Performing Numerical or Analytical Calculations.
		CO2	:	Develop the Optical Phenomenon in Various Fields
UPHR203/ UPHR101	Major Practical II	CO1	:	Demonstrate Knowledge and Comprehension of the Basic of Physics.
		CO2	:	Develop Independent Problem Solving Skills. 1. Compound Pendulum-Acceleration due to Gravity 'g' and Radius of Gyration. 2. Bifilar Pendulum-Verification of M.I Theorem. 3. Specific Heat Capacity – Newton's Law of Cooling. 4. Lee's Disc – Thermal Conductivity of Card Board. 5. Specific Heat of a Liquid – Verification of Newton's Law of Cooling. 6. Thermistor – Temperature Coefficient ''a'' – Multimeter. 7. Thermocouple – Temperature Coefficient ''a'' – Multimeter. 8. P.O Box – Temperature Coefficient of Thermistor.

				9. Bifilar Pendulum – Determination of Earth's Gravitation Field. 10. Measurement of Stefan's Constant
UPHM305	Electricity and Magnetism	CO1	:	Understand the fundamentals of electric charges, potential, electric fields.
		CO2	:	Learning the basic concepts in thermoelectric principles.
		CO3	:	Understand the classification of the magnetic properties and its applications.
				Analyze the electric and magnetic properties in Maxwell's equation.
				Create the circuits, motors with the help of electromagnetic induction.
UPHM304	Mathematical Physics	CO1	:	Understand the vector algebra, divergence, gradient and curl and their physical significances.
		CO2	:	Apply the differential equations in Newton law of Cooling and radioactive materials.
		CO3	:	Analyze the complex numbers and their graphical representation in analytic function to flow problems.
		CO4	:	Explain the periodic functions in a series of sine and cosine functions
		CO5	:	Evaluate the statistical laws in frequency and normal distribution characteristics.
UPHR305	Major Practical III	CO1	:	Apply the components in Deflection Magnetometer.
		CO2	:	Calculate the thickness of a thin wire by forming interference fringes using an air wedge arrangement.
		CO3	:	Measure the wavelengths of light over a wide range of SpectrometerGrating
		CO4		Operate the potentiometer both low and high range.
		CO5		Develop the Planck's Constant- using Laser Light
UPHM407	Atomic Physics	CO1	:	Understand the fundamentals of atoms and its developments.
		CO2	:	Analyze the concepts of photoelectric effect and its verification
		CO3	:	Apply the photoelectric effect in the atomic models for transition of electrons in the energy levels
		CO4	:	Evaluate the electric and magnetic effects in the atomic structures.
		CO5	:	Compose the interaction of atoms with electromagnetic radiation.
UPHR405	Major Practical IV	CO1	:	Apply the basic components in potentiometer.
		CO2	:	Understand the Deflection Magnetometer
		CO3	:	Execute the refractive index of a prism.
		CO4	:	Deduce the radius of curvature using Newtons rings

		CO5	:	Experiment the Cauchy's constant using Spectrometer.
PHM101	Mathematical Physics I	CO1	:	Apply the concepts of Calculus, Vector Analysis, Vector Calculus, Fourier Series, Special Functions.
		CO2	:	Solve various Physics Problems using Mathematical Techniques
PHM107	Classical Mechanics	CO1	:	Solve the Lagrangian Dynamics, Hamiltonian Mechanics, Lorentz Transformations, Special Theory of Relativity and Nonlinear Dynamical Problems.
		CO2	:	Create the Necessary Mathematical Equations
PHM105	Electronics	CO1	:	Recognise a variety of Exciting High-Tech Products and Systems Enabled by Electronics.
		CO2	:	Manipulate Voltages, Currents and Resistances in Electronic Circuits.
		CO3	:	Demonstrate Familiarity with Basic Electronic Components and Use them to Design Simple Electronic Circuits.
PPHM106	Molecular Spectroscopy	CO1	:	Describe the Desirable Features of a Radiation Source.
		CO2	:	Able to Analyze Results of Measurements using Molecular Spectroscopy Methods
PPHR101	General Practical – I	CO1	:	Analyze the Effects of Refractive Index of a Medium using Optical Instruments.
		CO2	:	Make Error Free Measurements and Error Analysis
PPHM205	Mathematical Physics II	CO1	:	Apply the concepts of Probability, Matix, Group Theory, Tensor Analysis and Greens Function.
		CO2	:	Solve various Physics Problems using Mathematical Techniques.
PPHM201	Quantum Mechanics I	CO1	:	Develop the Model a given Problem such as Particle in a Box, Hydrogen Atom, Hydrogen Atom in Electric Fields.
		CO2	:	Evaluate different Quantum Systems in Atomic and Nuclear Physics
PPHM208	Electromagnetic Theory	CO1	:	Apply Electrostatic Concepts in Plasma Physics
		CO2	:	Analyze various Laws in Electricity and Magnetism.
PPHM207	Solid State Physics I	CO1	:	Able to Differentiate Crystal Structure and its Properties based on the Insulators, Conductors and Semiconductors.
		CO2	:	Analyze the concepts of Fermi Surface in different Materials
PPHR203	Electronics Practical	CO1	:	Effectively Engage in Electronics Experiments using PN Junction Diode, Zener Diode, Transistor and Integrated Circuits and Execute Computer Programs in Physical Science Problems
		CO2	:	Design and Practice related Experiments and Acquire Data in order to Explore Electronic Principles, Effectively Communicate Results, and Critically Evaluate related Scientific Studies.

COURSE OUTCOMES – 2021-2022

PPHE201	Nanoscience	CO1	:	Synthesize Nanoparticles by different Chemical Routs and Characterize them in the Laboratory.
		CO2	:	Characterization of Nanostructured Materials using X-Ray Diffraction, Electron Microscopy, Atomic Force Microscopy and Scanning Tunneling Microscopy.
PPHM301	Quantum Mechanics II	CO1	:	Analyze the approximation methods for time-independent problems and WKB
		CO2	:	Distinguish variational equation and its application to ground state of the hydrogen and Helium atom.
		CO3	:	Illustrate Perturbation theory and Interaction of an atom with the electromagnetic field.
		CO4	:	Explain the Relativistic Quantum Mechanics using Dirac equation, Dirac matrices and Klein Gordon Equation.
		CO5	:	Evaluate the second quantization of the Schrödinger wave field for bosons and fermions
PPHM303	Microprocessor and Microcontroller	CO1	:	Learn importance of Microprocessors and Microprocessors architectures and its feature.
		CO2	:	Understand the 8085 Microprocessors basic programs with applications.
		CO3	:	Apply the Basic interfacing concepts.
		CO4	:	Develop interfacing to real world devices with applications
		CO5	:	Execute the 8051 Microcontroller Architecture, programming and special functions registers.
PPHM307	Statistical Mechanics	CO1	:	Illustrate the statistical physics and thermodynamics as logical consequences of the postulates of Statistical mechanics.
		CO2	:	Analyze the principles of statistical mechanics to selected problems.
		CO3	:	Evaluate the ensemble approach in statistical mechanics to a range of situations.
		CO4	:	Explain the classical and quantum statistics and statistical distribution laws
		CO5	:	Distinguish between the ideal Bose systems and Fermi systems
PRMC301	Research Methodology	CO1	:	Determine the Importance of how research is done.
		CO2	:	Choose the Problem and Research Design.
		CO3	:	Correlate the Sampling Design And Data Collection for research.
		CO4	:	Evaluate the Report Writing, Research Ethics
		CO5	:	Manage the Instrumentation for sample analysis
PPHR303	Microprocessor and Microcontroller Practicals	CO1	:	Execute the Seven Segment display using Microcontroller
		CO2	:	Prepare the 8085 Microprocessors basic programs with applications.
		CO3	:	Organize the Basic interfacing concepts.
		CO4	:	Develop interfacing to real world devices with applications.

		CO5	:	Predict the 8051 Microcontroller Architecture, programming and special functions registers.
PIDM301	Sustainable Materials and Technologies	CO1	:	Describe the concept of sustainable Materials, green chemistry and Nano materials.
		CO2	:	Illustrate the characterization studies of SEM, TEM XPS and EDX studies
		CO3	:	Distinguish the concept of Biological and electronic application of nanomaterials
		CO4	:	Detect the FESEM and AFM characterization studies to improve the employability skill
		CO5	:	Simulate the concept of green solvents, catalysis and zeolites
PPHM406	Laser and Nonlinear Optics	CO1	:	Analyze about lasers, nonlinear optics, and the multiphonon process
		CO2	:	Explain the terms Junction Diode, Semiconductor Laser, Wave Propagation, and Dispersion in simple terms
		CO3	:	Examine the ideas of solid lasers, gas lasers, fibers, and harmonic production
		CO4	:	Describe the concepts of frequency generation, parametric amplification, and the Laser Induced Surface Damaged Threshold.
		CO5	:	Develop the employability skill to learn the terms of Fiber Optics, X-ray Diffraction and FTIR study.
PPHM402	Nuclear and Particle Physics	CO1	:	State nuclear size ,shape , bindingenergy.etc and also the characteristics of nuclear force in detail
		CO2	:	Evaluate the nuclear models and potentials associated
		CO3	:	Illustrate the nuclear decay processes, alpha, beta and gamma decay
		CO4	:	Explain the Nuclear reactions, Fission and Fusion and their characteristics
		CO5	:	Lead the forces in nature and classification of particles and study in detail conservations laws and quark models.
PPHM403	Solid State Physics-II	CO1	:	State the semiconductors, dielectric, optical, Magnetic and superconducting Properties.
		CO2	:	Distinguish the Paramagnetic materials, ferromagnetic materials and ferromagnetic materials.
		CO3	:	Analyze and apply the concept of luminescence materials, Photoconductivity composites in day today life
		CO4	:	Adopt the employability skill to learn the concept of Fermi level, Charge carrier, piezo, pyro and ferroelectric crystals.
		CO5	:	Develop the refractive index, Polarizability and Mossotti equation.
PPHM405	Crystal growth and Thin Films	CO1	:	Apply the nucleation concepts and nucleation types

		CO2	:	Analyze the solution growth techniques and principles.
		CO3	:	Experiment the crystal growth process and principles
		CO4	:	Predict the preparation of deposition techniques.
		CO5	:	Simulate the thin film process

DEPARTMENT: BIOCHEMISTRY

Course Code	Course Title	Course Outcome		
UBCM108	Basics of Biochemistry	CO1	:	Understand the Importance and Scope of Biochemistry.
		CO2	:	Gain Knowledge about Biological Molecules and its Significance.
		CO3	:	Familiarize the Laws of Thermodynamics and Biological Buffers.
		CO4	:	Aware about the Quality Control Practices and Biosafety Measures Followed in the Laboratory.
UBCM107	Cellular Biology	CO1	:	Understand about the Origin and Evolution of the Cell.
		CO2	:	Get Knowledge on Structure of Nucleus and Organization of Chromosomes.
		CO3	:	Illustrate the Structure and Properties of Cell Membrane and Different Types of Transport Mechanism across Cell Membrane.
		CO4	:	Disseminate Knowledge about the Chemistry and Functions of Sub Cellular Organelles
		CO5	:	Elucidate the Cell Cycle, Cell Division and Cell Death Mechanisms.
UBCR102	Cellular Biology Practical	CO1	:	Acquainted to Various Microscopic Techniques to Visualize Subcellular Organelles.
		CO2	:	Differentiate the Cells of Various Living Organisms and Get Awareness of Physiological Processes of Cell E.G. Cell Divisions.
		CO3	:	Observe and Correctly Identify Different Cell Types, Cellular Structures Using Different Microscopic Techniques.
		CO4	:	Observe and Classify the Prokaryotic Cells (Bacteria) Using Differential Staining.
UBCM203	Biomolecules	CO1	:	Knowledge on Carbohydrates and its Biological Significance.
		CO2	:	An in Depth Understanding on the Basic Properties, Mechanisms and Significances of Biological Proteins.
		CO3	:	Information about All Lipids and Their Biological Significance.
		CO4	:	Gain Clear Idea on the Types, Structure and Biological Functions of Nucleic Acids

		CO5	:	Aware of the Importance of Vitamins and Minerals in Biological Systems.
UBCR202	Qualitative analysis of Biomolecules	CO1	:	Understand the Importance of Qualitative Test in the Laboratory for Diagnoses.
		CO2	:	Acquire Skill to Perform the Experiment in the Real Lab.
		CO3	:	Analyze the Tests for Carbohydrates, Amino Acids, Proteins and Lipids.
UMBA202	Microbiology	CO1	:	Gain Knowledge on Different Types of Microbes and Culture Media.
		CO2	:	Aware about Common Microbes and its Taxonomy.
		CO3	:	Identify the Common Infectious Agents and the Diseases that they Cause.
		CO4	:	Explain the Use of Microbes in the Industry and its Process.
UMBR202	Microbiology Practical	CO1	:	Summarize the Fundamental Insights to Exploit Microbes for Manufacturing of Products Which Have Huge Industrial Significance.
		CO2	:	Integrate Various Biochemical Processes to Obtain Products Such as Food, Chemicals, Vaccines, Medicine.
		CO3	:	Analyze the Role of Microbes in Industry Using Technology.
		CO4	:	Learn Different Types of Pure Culture Techniques, Preservation of Pure Culture and Culture Collection Centers.
		CO5	:	Isolate Cultures in Pure form and Preserve Cultures for Further Use in Research Studies.
UBCM305	Biochemical Techniques	CO1	:	Define the principle, Instrumentation of different types of Light microscopy and electron microscopy and its applications in various fields of research.
		CO2	:	Discuss the importance and applications of centrifugation techniques in modern day research
		CO3	:	Separate and calculate the biomolecules using chromatographic techniques.
		CO4	:	Explain eletrophoretic techniques and its uses.
		CO5	:	Explain about principle, Bioinstrumentation and applications of latest spectroscopy techniques like Turbidometry, AAS, NMR, ESR and Nephelometry.
UBCR302	Biochemical Techniques practical I	CO1	:	Explore the various separation and quantifying techniques used to isolate and measure the biological samples
		CO2	:	Compare and sort out the suitable techniques used for the analysis of biological samples chosen.

		CO3	:	Demonstrate on separation of sugars, amino acids and Plant pigments using different chromatographic techniques
UBCM404	Immunology	CO1	:	Define the role of Ag and Antibody in immune system
		CO2	:	Explain the basic concepts of the immune system, different types of immune cells and organs, the cell-mediated and humoral aspects of immunity and immune responses, its disorder and lot more.
		CO3	:	Illustrate the immune system functions by recognizing and destroying foreign antigens including the harmful microorganisms and other disease-causing microbes.
		CO4	:	Evaluate the adverse effect of immune system including allergy, hypersensitivity and autoimmunity.
		CO5	:	Criticize for immunological research and execute it using immunological Techniques.
UIDM402	Pharmaceutical Chemistry	CO1	:	Describe the drugs and its classification
		CO2	:	Explain the drug receptors and their interaction.
		CO3	:	Illustrate the metabolism of drugs.
		CO4	:	Distinguish the chemistry of drugs with respect to their pharmacological activity.
		CO5	:	Critize about chemotherapeutic of drugs.
UBIA401	Basics of Bioinformatics	CO1	:	Explain the concepts of biology in Computer science and scope of bioinformatics.
		CO2	:	Illustrate the types of biological data bases.
		CO3	:	Appraise the features of DNA sequence analysis.
		CO4	:	Describe the concepts of FASTA & BLAST.
		CO5	:	Explain the applications of bioinformatics.
UBCR402	Biochemical Techniques Practical II	CO1	:	Demonstrate on separation of DNA and Protein using Blotting techniques
UBCE301 UBCE403	Hormonal Biochemistry	CO1	:	Explain the role of glycoprotein hormones and its disorders.
		CO2	:	Describe molecular, biochemical and physiological effects of all hormones and factors on cells and tissues.
		CO3	:	Elucidate the role of hormones in biological clock
UBCE302 UBCE404	Food Microbiology	CO1	:	Explain the important pathogens and spoilage microorganisms in foods and the conditions under which they will grow
		CO3	:	Enumerate the role of beneficial microbes; harmful microorganisms and food spoilage; pathogenic microorganisms, infection and intoxication, mycotoxin, viruses and parasites
		CO4	:	Define the principles involved in food preservation.

		CO5	:	Explain the principles of food science to control and assure the quality of food products.
UBCE402)/ UBCE303)	Clinical Nutrition	CO1	:	Define nutrition, nutrient and the role of nutrition in health and the recommended nutrient allowances
		CO2	:	Explain the importance of dietary management to overcome various blood disorders.
		CO3	:	Identify the various GI disorders due to dietary imbalance.
		CO4	:	Discuss the importance of dietary management to overcome various systemic disorders.
		CO5	:	Summarize the renal disorders that occur due to diet.
		CO1	:	Define nutrition, nutrient and the role of nutrition in health and the recommended nutrient allowances
UBCE401/ UBCE304	Mushroom Cultivation	CO1	:	Identify the different types of mushroom and its benefits in cooking.
		CO2	:	Identify the fruiting stage and apply the life cycle and culture needs of many mushrooms to the garden and landscape environmental niches.
		CO3	:	Describe and apply the uses and lore of many mushrooms and culture techniques to further explore their cultivation potential.
		CO4	:	Apply laboratory techniques to the capture, culture, and fruiting of many types of mushrooms in the home kitchen la
		CO5	:	Demonstrate the importance of mushroom by preparing various types of receipies.
PBCM107	Bimolecular Chemistry	CO1	:	Understand about Organization of Homo and Heteroglycans.
		CO2	:	Gain Clear Knowledge on Aminoacids and Protein Characterization.
		CO3	:	Evaluate the Structure and Hierarchical Organization of Nucleic Acids With their Biological Function.
		CO4	:	Acquire Knowledge on Various Accessory Molecules Like Vitamins Porphyrins.
		CO5	:	Interpret the Role of Various Biological Structures in Cell to Cell Interaction.
PBCM108	Cell Biology	CO1	:	Understand the Molecular Organization of Cells, Cell - Cell Communication, Cell Junctions, Cytoskeleton and Extracellular Matrix Protein.
		CO2	:	Appreciate Membrane Composition and Transport Mechanisms.
		CO3	:	Interpret the Role of Various Biological Structures

				in Cell to Cell Interactions.
		CO4	:	Comprehend the Steps in Cell & Tissue Culture.
		CO5	:	Understand the Molecular Organization of Cells, Cell - Cell Communication, Cell Junctions, Cytoskeleton and Extracellular Matrix Protein.
PBCM109	Microbiology	CO1	:	Understand the Basics of Microbiology Like Characterization and Classification of Microorganisms, Cultivation, Nutrition, Physiology and Growth of Microbial Cells.
		CO2	:	Demonstrate Various Classes and Structure of Microbes.
		CO3	:	Discuss Preparation and Applications of Products from Industries. Role of Microbes in Nitrogen Fixation, Purification of Water.
		CO4	:	Learn about Methods of Sterilization & Preparation of Various Culture Media.
		CO5	:	Understand the Basics of Microbiology Like Characterization and Classification of Microorganisms, Cultivation, Nutrition, Physiology and Growth of Microbial Cells.
PBCM110	Molecular Biology	CO1	:	Explain Nucleic Acid As Genetic Information Carriers, Possible Modes of Replication and Roles of Replication Enzymes.
		CO2	:	Learn about the Mechanism and Regulation of Transcription in Prokaryotes along with Reverse Transcription.
		CO3	:	Understand the Classes of DNA Sequences, Centromere, Telomere, Satellite DNA, Minisatellite and Applications of Satellite DNA and Split Genes.
		CO4	:	Analyze the Changes in Coding Sequences by Applying Genetic Code Concept.
		CO5	:	Comprehend Protein Targeting and the Role of Ubiquitine in Protein Degradation and Chaperons in Folding.
PBCR103	Microbiology and Molecular Biology Practical	CO1	:	Equipped with the Knowledge to Handle Microbes and Basic Instrumentation Used in Microbiological Laboratory.
		CO2	:	Various Basic Techniques to Isolate, Characterize the Microbes Morphologically Will Be Known to them.
		CO3	:	Differentiate the Main Types of Prokaryotes through their Grouping Abilities and List their Characteristic and Differentiating Properties
PBCM207	Metabolism & Regulation	CO1	:	Explain Biochemical Energy Generation through Carbohydrate Metabolism.
		CO2	:	Outline Lipid Metabolism with Respect to Several Human Diseases, Due to Defects in the Metabolic Pathway.
		CO3	:	Explain Energy Yielding and Energy Requiring Reactions in Life and Diversity of Metabolic

				Reactions in Amino Acid Pathway
		CO4	:	Analyse the Integration of Biochemical Process with Specific Control Sites and Key Junctions.
PBCM208	Human Physiology	CO1	:	Understand the Fundamental Components & Functions of Digestive, Reproductive & Excretory System.
		CO2	:	Discuss The Importance of Cardiac and Respiratory System and to Create Awareness on Cardiovascular and Respiratory Diseases.
		CO3	:	Discuss the Functions of Nervous System and the Mechanism of Synaptic Transmission.
		CO4	:	Explain the Importance of Reproductive System.
PBCM209	Analytical Biochemistry	CO1	:	Obtain Necessary Knowledge to Perform Techniques Essential to Biochemistry.
		CO2	:	Use Appropriate Electrophoretic Method in Separation of Biomolecules.
		CO3	:	Apply Practically the Knowledge Acquired on Radioactivity and Microscopy in Biochemical Analysis.
		CO4	:	Differentiate the Principles of Paper, Ion Exchange, Gel & Affinity Chromatography.
		CO5	:	Explain the Instrument Components, Principles of Operation and Applications of Spectroscopy.
PBCM210	Endocrinology	CO1	:	Understand the Role of Hypothalamo - Pituitary Axis is the Coordination of Nervous & Endocrine System.
		CO2	:	Learn the Functions of Pituitary, Parathyroid and Thyroid Secretion & Associated Disorders.
		CO3	:	Explain the Actions of Adrenal and Gonadal, GI Tract and Pancreatic Hormones & Secretions.
		CO4	:	Discuss the MAP Kinase and Nuclear Receptor Mediated Pathway and Analyse Signaling Cross Talk.
PBCR203	Analytical Biochemistry Practical	CO1	:	Gain the Basic Knowledge on the Theory, Operation and Function of Analytical Instruments
		CO2	:	Experienced in Handling of Various Instrumentations those are used in the Analytical Laboratories.
		CO3	:	Separate Biomolecules by Appropriate Chromatographic and Electrophoretic Methods.
PBCX201	Mushroom Cultivation (Service Learning)	CO1	:	Understand the Importance of Embarking on Self-Employment and has developed the Confidence and Personal Skills for the same.
		CO2	:	Identify Business Opportunities in Chosen Sector / Sub-Sector and Plan and Market and Sell Products / Services
		CO3	:	Start a Small Business Enterprise by Liaising with Different Stake Holders.
PBCM305	Enzymology and Enzyme Technology	CO1	:	Define fundamental properties of enzymes, nomenclature, enzyme catalytic mechanisms and enzyme kinetics.

		CO2	:	Explain the mechanism of enzyme action, importance of coenzymes.
		CO3	:	Apply the biochemical calculation for enzyme kinetics.
		CO4	:	Explain the mechanism of enzyme regulation.
		CO5	:	Discover the current and future trends of applying enzyme technology for the commercialization purpose of biotechnological products.
PBCM306	Immunology	CO1	:	Identify the various cell types involved in immune responses and associated functions
		CO2	:	Distinguish the cellular and molecular basis of immune responsiveness.
		CO3	:	Explain the role of cytokines in immunity and immune cell activation; and be able to identify and characterize cytokines of particular immune importance
		CO4	:	List out the significance of Major Histocompatibility Complex in terms of immune response and transplantation
		CO5	:	Explain the importance of Hybridoma technology and complement system.
PRMC301	Research Methodology	CO1	:	Identify and discuss the issues and concepts salient to the research process. Selecting an appropriate research design, and implementing a research project.
		CO2	:	Learn the applications of packages like WORD, EXCEL, Power Point in entering data, preparing tables, graphs, charts etc.,
		CO3	:	Apply foundational research skills to address a research question; Demonstrate planning, time and change management skills
		CO4	:	Evaluate educational research critically and participate in the research community
		CO5	:	Assess the basic function and working of analytical instruments used in research
PBCR302	Enzymology & Clinical Diagnostics	CO1	:	State the principles of laboratory diagnostics based on scientific evidence.
		CO2	:	Evaluate the test results after suitable diagnostic test.
		CO3	:	Recommend marker enzymes during pathological conditions.
		CO4	:	Apply the acquired knowledge in planning scientific research ranging from population-based studies to clinical

				trials.
PBCI302	Plant Biochemistry& Industrial Biotechnology	CO1	:	Understand the role of biochemists in evaluating the potential industrial and medicinal applications of plants.
		CO2	:	Understands about the existence of naturally available and metabolically important growth regulators and secondary metabolites and its potential in crop development.
		CO3	:	Demonstrates ability to explain relation between Photosynthesis, growth hormones and Plant growth.
		CO4	:	Explain and understand the biochemistry of plant growth and development.
		CO5	:	Develop skills and knowledge to conduct basic research work in the field of Plant Biochemistry.
PBCM403	Genetics & Genetic Engineering	CO1	:	Define the basics concepts of classical, molecular and evolutionary genetics.
		CO2	:	Explain how to construction genomic DNA library and cDNA library
		CO3	:	List the various tools and techniques in rDNA technology- DNA manipulative enzymes.
		CO4	:	Describe about direct gene transfer methods including microinjection, electroporation and biolistic gun.
		CO5	:	Discuss the applications of genetic engineering and apply learned knowledge to their future research
PBCM404	Advanced Clinical Biochemistry	CO1	:	Discuss the fundamentals of clinical biochemistry related to health.
		CO2	:	Explain the clinical significance of the free radicals and the enzymes involved.
		CO3	:	Illustrate the disorders associated with metabolism.
		CO4	:	Identify the test use to diagnose the liver and renal function.
		CO5	:	Differentiate the oncogenes, protooncogenes and tumor suppressor genes and the markers used to identify the tumors.

COURSE OUTCOMES – 2021-2022

DEPARTMENT: CHEMISTRY

Course Code	Course Title	Course Outcome		
UCHM108	Inorganic Chemistry-I	CO1	:	Understand the Structure of Atoms and Rules Involved in it.
		CO2	:	Gain Knowledge about the Basic Concepts Block Elements and their Properties.
		CO3	:	Acquire about the various types of Chemical Bonding and their Characteristics.
UCHM109	Analytical Chemistry	CO1	:	Familiar with Sampling, Statistical Testing of Data.
		CO2	:	Know the Basics of Thermal, Electroanalytical Techniques.
		CO3	:	Learn the Concept of Separation Techniques, Mechanism and its Applications.
		CO4	:	Gain Knowledge in Qualitative and Quantitative Aspects of Chromatographic Methods
UCHR101	Volumetric Practical	CO1	:	Understand the Practical Knowledge of Titrimetric Analysis.
		CO2	:	Gain the Knowledge of Acid-Base Titrations.
		CO3	:	Understand the Oxidation-Reduction Reactions.
UCHM203	Organic Chemistry-I	CO1	:	Know the Basics of Organic Molecules, Structure, Bonding, Reactivity and Reaction Mechanisms.
		CO2	:	Understand the Stereochemistry of Organic Molecules – Conformation and Configuration, Asymmetric Molecules and Nomenclature.
		CO3	:	Gain Knowledge in Alkanes and Cycloalkanes Compounds.
		CO4	:	Acquire about Elimination Reaction and its Mechanism.
		CO5	:	Familiar about Aromaticity of the Compounds.
UCHM204	Nuclear & Radiation Chemistry	CO1	:	Understand the Nuclear Reactions Basic Concepts and its Classification.
		CO2	:	Gain Knowledge about the Reactions Involved in Nucleus.
		CO3	:	Know about the Radiations and its Process.
		CO4	:	Acquires about the Nuclear Pollution.
UCHR206	Organic Practical	CO1	:	Checking the Calibration of the Thermometer.
		CO2	:	Know the Purification of Organic Compounds by Crystallization Using Solvents.
		CO3	:	Determine the Melting Points of Given Organic Compounds and Unknown Organic Compounds.
		CO4	:	Acquire the Knowledge of Chromatography Techniques to Separate the Mixture of Amino acids, Sugars and Other Organic Compounds.
UCHA103	Chemistry for Biochemist	CO1	:	Understand the Concept of Chemical Bonding.

		CO2	:	Chemistry involved in Co-ordination Compounds.
		CO3	:	Gain Knowledge Regarding Reaction Involved in Electrochemistry and Solutions.
		CO4	:	Acquire the Role of Biomolecules.
UCHM307	Physical Chemistry - I	CO1	:	Define an expression for rate constant K for third order reaction
		CO2	:	Solve the numerical problems based on Rate constant
		CO3	:	Understand the term specific volume, molar volume and molar refraction
		CO4	:	Know the meaning of phase, component and degree of freedom
		CO5	:	Describe the expression Maxwell's relations
UCHM308	Electrochemistry	CO1	:	Apply Nernst equation and the Tafel equation to different electrochemical systems
		CO2	:	Define the term overpotential, explain its origin and the relationship between current and potential for some types of electrochemical cells
		CO3	:	Examine the conductivity of an electrolyte depends on the electrolyte concentration
		CO4	:	Evaluate some common electrochemical methods to electrochemical systems and explain which type of information that can be obtained with these techniques
		CO5	:	Estimate an unknown solution concentration using potentiometric titrations
UCHR404/ UCHR405	Semi Micro Qualitative Inorganic Analysis	CO1	:	Describe the organic and inorganic salts
		CO2	:	Understand the basic concepts behind in the chemical compounds
		CO3	:	Apply and analyze the sample using various techniques
				Select the exact method for particular compounds
				Design new methods to analyze the chemical compounds
UCHM407	Molecular Spectroscopy & Photochemistry	CO1	:	Recognize characteristics of organic molecules
		CO2	:	Understand the structures of newly synthesized compounds
		CO3	:	Apply their knowledge to characterize the chemical compounds

		CO4	:	Analyze the coupling reaction between hydrogen
		CO5	:	Evaluate and apply knowledge of modern techniques for organic samples.
UCHM408	Research Methodology	CO1	:	Demonstrate the ability to choose methods appropriate to research aims and objectives
		CO2	:	Understand the limitations of particular research methods
		CO3	:	Develop skills in qualitative and quantitative data analysis and presentation
		CO4	:	Develop advanced critical thinking skills
		CO5	:	Demonstrate enhanced writing skills
UCHR404/ UCHR405	Semi micro Qualitative Inorganic Analysis	CO1	:	Describe the organic and inorganic salts
		CO2	:	Understand the basic concepts behind in the chemical compounds
		CO3	:	Apply and analyze the sample using various techniques
		CO4	:	Select the exact method for particular compounds
		CO5	:	Design new methods to analyze the chemical compounds
PCHM114	Inorganic Chemistry-I	CO1	:	Methods, Bonding Nature and Inorganic Ring Systems.
		CO2	:	Understand the Different Approaches to Types of Chemical Bonding.
		CO3	:	Knowledge of Electronic Concepts of Structure of the Molecules.
		CO4	:	Understand the Nature and Effects of Metallic Bonding.
		CO5	:	Acquires Crystal Structures and Principles of Diffraction Methods.
PCHM115	Physical Chemistry-I	CO1	:	Recall Basic Mathematical Concepts and Learn to Apply to Quantum Mechanics and Group Theory.
		CO2	:	Classify the Pre-Quantum Limitations and Need for the Quantum Mechanical Approaches.
		CO3	:	Illustrate Principles of Quantum Mechanics of Simple Systems.
		CO4	:	Apply Quantum Mechanical Treatment of Multi-Electron Systems.
		CO5	:	Apply Principles Governing Group Theory Through Construction of Character Tables.
		CO6	:	Analyze Symmetry and Chemical Bonding of Chemical Systems Through Group Theory.
PCHM116	Analytical Chemistry	CO1	:	Understand the Error Analysis of the Experimental and Instrumentals Studies
		CO2	:	Acquire the Skill to Determine the Functional Groups Present in Unknown Molecules Using IR and UV-Visible Spectra.

		CO3	:	Introduce Basic Analytical Techniques and Practical Aspects of Classical Chemical Separation by Chromatography and Mass Spectroscopy Analysis.
		CO4	:	Get Knowledge About Various Electrochemical Phenomena.
		CO5	:	Understand the Morphological Observations of the Materials and their Applications
PCHR203	Organic Practical	CO1	:	Understand the Extraction Process.
		CO2	:	Acquire Skill about Estimation of Organic Compounds.
		CO3	:	Analyse the Qualitative Process of Mixture of Compounds
PCHR204	Inorganic Practical	CO1	:	Qualitative Analysis of Mixture Containing two Common and two Rare Cations.
		CO2	:	Understand the Concept of Preparation of Inorganic Complex.
		CO3	:	Learn the Estimation of Metal Ions by Volumetric and Gravimetrical Analysis.
		CO4	:	Acquire the Knowledge of Spectrophotometer
PCHM207	Organic Chemistry-II	CO1	:	Inculcate the Basic Knowledge of Conformational Isomers and Various Inter/Intra Molecular Interactions and their Relative Stabilities.
		CO2	:	Teach the Role of the Conformation, Inter/Intramolecular Interactions in Directing the Various Mechanisms of Reactions in Acylic and Cyclic Systems.
		CO3	:	Introduce and Explain in Detail the Types of Reactions and the Reagents Employed in the Reactions.
		CO4	:	Teach Situations Wherein the Rearrangements are Taking Place. Also the Types of Various Rearrangements are to be Discussed in Detail with Mechanism.
		CO5	:	Inculcate the Basic Knowledge of Synthons and Other Terminology Used in Organic Synthesis.
PCHM208	Inorganic Chemistry-II	CO1	:	Learn Crystal Field Theory and MO Theory of Coordination Compounds.
		CO2	:	Be Able to Recognize the Types of Isomers in Coordination Compounds.
		CO3	:	Learn the Structure and Bonding in Transition Metal Compounds with Ligands Commonly Encountered in Organometallic Chemistry.
		CO4	:	Understand the Structure, Reactivity and Applications of Acceptor Complexes.
		CO5	:	Understand the Role of Metal Ions in Hb, Mb, Enzymes, Vitamins and Other Biological Systems.

PCHM209	Physical Chemistry-II	CO1	:	Learn Origin and Principles of Microwave Spectroscopy and Infrared Spectroscopy and Apply to Simple Chemical Molecules.
		CO2	:	Understand Origin and Principles of Raman Spectroscopy, Electronic Spectroscopy and Fluorescence Spectroscopy.
		CO3	:	Gain Knowledge on the Origin and Principles of FT-NMR Spectroscopy.
		CO4	:	Critically Analyze the Origin of Various NMR Parameters and Principles of 2D-NMR Spectroscopy.
		CO5	:	Demonstrate the Origin and Principles of EPR/ESR Spectroscopy and their Applications to Organic Radicals and Paramagnetic Complexes.
PCHR204	Inorganic Practical	CO1	:	Qualitative Analysis of Mixture Containing two Common and two Rare Cations.
		CO2	:	Understand the Concept of Preparation of Inorganic Complex.
		CO3	:	Learn the Estimation of Metal Ions by Volumetric and Gravimetrical Analysis.
		CO4	:	Acquire the Knowledge of Spectrophotometer.
PCHM309	Organic Chemistry-III	CO1	:	Explain the nomenclature of heterocyclic compound
		CO2	:	Predict and characteristics of functional groups using UV and IR spectroscopy.
		CO3	:	Apply the Mass spectroscopy to identify the structure from Fragmentation pattern, effect of isotopes.
		CO4	:	Differentiate nuclear magnetic resonance spectroscopy of 1H and 13C
		CO5	:	Determine the given molecular structure using NMR, IR, UV-Vis and MS spectra from a
PCHM310	Inorganic Chemistry-III	CO1	:	Remember the lanthanide and actinide series.
		CO2	:	Explain the characteristics of radioactive decays, knows the basics of measurement of radioactivity and has the knowledge of the main applications of nuclear chemistry
		CO3	:	Prepare various types of nuclear changes or processes including fission, fusion and decay reactions.
		CO4	:	Describe and explain catalytic processes using an organometallic compound as a catalyst
		CO5	:	Determine organometallic compounds are used as catalysts in organic synthesis
PCHM311	Physical Chemistry-III	CO1	:	Recognize concentration and mechanism of catalysis
		CO2	:	Describe and understand the Colloidal system
		CO3	:	Apply the knowledge to adsorption isotherm

		CO4	:	Differentiate the Kinetics of reaction in solution and fast reaction
		CO5	:	Criticize and Understand and analyze the application corrosion.
PCHI301	Sustainable Materials and Technologies	CO1	:	Remember the sustainable materials
		CO2	:	Explain processes and products that are safe and hazard free
		CO3	:	Apply knowledge of green chemistry in alignment with sustainability principles realizing benefits for society.
		CO4	:	Analyse mechanistic problems and develop new functional materials.
		CO5	:	Select new materials for various applications
PCHR401	Physical Chemistry Practical	CO1	:	Define the practical knowledge about the chemical kinetics
		CO2	:	Understand the conductivity experiments
		CO3	:	Apply potentiometric titrations in identification of acids
		CO4	:	Analyze the experimental data
		CO5	:	Develop the partition co-efficient of new compounds in a mixture of two immiscible solvents
PCHM412	Organic Chemistry-IV	CO1	:	Remember the photochemical transformations in photochemistry
		CO2	:	explain type of pericyclic mechanism is operative in a reaction
		CO3	:	Carry out various types of rearrangement reactions and their mechanism.
		CO4	:	Explain role of reagents in organic synthesis
		CO5	:	Evaluate and Create synthetic routes to complex organic molecules through cycloaddition reactions
PCHM413	Inorganic Chemistry-IV	CO1	:	Describe cluster, ring ,cages and chain of main group elements
		CO2	:	Acquire skill to interpret the spectra of EPR and Photoelectron Spectroscopy for inorganic compounds.
		CO3	:	Prepare various alkene and alkyne complex
		CO4	:	Analyze Cyclopentadienyl metalloccene- sandwich and half-sandwich complexes
		CO5	:	Determine the Organometallic reaction
PCHM414	Physical Chemistry-IV	CO1	:	Recognize diatomic molecule
		CO2	:	Predict the samples using different analytical techniques like SEM, TEM, AFM, STM.
		CO3	:	Illustrate the polymerization and its types
		CO4	:	Analyse the photo and radiation Chemistry
		CO5	:	Evaluate the electrochemical processes.
PCHM411	Natural Products	CO1	:	Describe the structure of Natural products by spectroscopic methods

		CO2	:	Understand the Separation techniques involved in the separation of natural products
		CO3	:	Prepare the aromatic amino acids using biosynthetic approach
		CO4	:	Compare the biosynthesis of alkaloids
		CO5	:	Create traditional drugs from various plants

DEPARTMENT: MATHEMATICS

Course Code	Course Title	Course Outcome		
UMAM104	Differential Calculus	CO1	:	Explain the relationship between the function and the notion of Derivative.
		CO2	:	Compare and Contrast the ideas of Continuity and Differentiability.
		CO3	:	To solve Algebraic Equations and Inequalities.
UMAM107	Algebra and Trigonometry	CO1	:	Write the Expansions of Trigonometric Functions in a Clear and Logical Manner.
		CO2	:	Solve Problems in Summation of Series, Matrices.
		CO3	:	Evaluate and Demonstrate Mathematical Reasoning.
UMAA115	Mathematical Statistics - I	CO1	:	Acquire a Good Knowledge of various Concepts of Probability.
		CO2	:	Analyse the Concepts of Probability and Statistics.
		CO3	:	Apply Laws of Probability to Concrete Problems
UMAM207	Vector Calculus	CO1	:	Acquire Knowledge of Vector Differentiation and Integration.
		CO2	:	Recognise Irrotational and Solenoidal Vector Fields.
		CO3	:	Evaluate Line and Surface Integrals.
UMAM208	Analytical Geometry	CO1	:	Learn Sketching of Various Curves.
		CO2	:	Understand the various Concepts of Analytical Solid Geometry.
		CO3	:	Implement Arithmetical and Geometric Operations involving Vectors in the Plane.
UMAA207	Mathematical Statistics - II	CO1	:	Apply Statistics for Mathematical Problems
		CO2	:	Formulate a Problem in Statistical Terms and Perform Analysis of Data.
		CO3	:	Analyse and Apply Theoretical Results in Statistical Questions.
UMAM308	Discrete Mathematics	CO1	:	Recall the logic and its normal forms.
		CO2	:	Describe the Lattices and its properties.
		CO3	:	Apply Boolean algebra to circuits and gating networks.
		CO4	:	Analyse Permutations & Combinations.

		CO5	:	Construct Automata Formal Languages in Compiling and Complexity Theory
UMAM309	Differential Equation	CO1	:	Define and Explain the concept of Linear Equations with Variable Coefficients
		CO2	:	Solve the concept of second order differential equation with Complex roots of the Characteristic Equation.
		CO3	:	Distinguish simple problems described by second order linear differential equations with constant coefficients.
		CO4	:	Relate Linear and Non linear partial differential equations.
		CO5	:	Formulate the Non linear Partial Differential Equation by standard forms.
UMAM407	Integral Transforms	CO1	:	Define the Fourier series.
		CO2	:	Describe the Laplace transform and its properties.
		CO3	:	Apply the Fourier Transforms and its real life application.
UMAM408	Mechanics	CO1	:	Recall the concept of forces.
		CO2	:	Recognize the forces on a rigid body
		CO3	:	Apply the parallel forces, couple, resultant of couple.
		CO4	:	Illustrate impulsive forces, & different types of impact.
		CO5	:	Evaluate Simple Harmonic and Orbital Motions
PMAM108	Abstract Algebra	CO1	:	Understand the Connection and Transition of Advanced Mathematics.
		CO2	:	Acquire Important Mathematical Concepts in Abstract Algebra.
		CO3	:	Solve Problems using Algebraic Techniques.
PMAM102	Real Analysis	CO1	:	Understand the Theory of Sequences and Series, Continuity, Differentiation and Integration.
		CO2	:	Describe the Fundamental Properties of the Real Numbers.
		CO3	:	Apply Analytical Skills in Constructing Rigorous Mathematical Arguments.
PMAM103	Ordinary Differential Equations	CO1	:	Effectively Write Mathematical Solutions in a Clear and Concise Manner.
		CO2	:	Locate and Use Information to Solve First and Second Order Ordinary Differential Equations.
		CO3	:	Demonstrate Ability to Think Critically by Determining and using Appropriate Techniques for Solving a Variety of Differential Equations
PMAM105	Calculus Of Variations And Integral Equations	CO1	:	Understand the Fundamental concepts of the space relative minimum of an Integral.
		CO2	:	Recognize difference between Volterra and Fredholm Integral Equations, First kind and Second kind, Homogeneous and Inhomogeneous

				etc.
		CO3	:	Apply different methods to solve Integral Equations.
PMAM106/ PMAM407	Fuzzy Analysis	CO1	:	Analyse Statistical Data by using Fuzzy Logic Methods.
		CO2	:	Apply Statistical Methods against Fuzzy Logic Methods.
		CO3	:	Demonstrate Fuzzy Logic Methods.
PMAM210	Linear Algebra	CO1	:	Recognize and Comprehend Proofs of Formal Statements.
		CO2	:	Generalize the Concepts of a Real (complex) Vector Space to an Arbitrary Finite-Dimensional Vector Space.
		CO3	:	Investigate Properties of Vector Spaces and Subspaces by using Linear Transformations
PMAM202	Measure and Integration	CO1	:	Understand basic notions in Topological Spaces and the n-dimensional space.
		CO2	:	Describe the Construction and Apply the Lebesgue Integral.
		CO3	:	Apply Lebesgue Decomposition and the Radon-Nikodym theorem.
PMAM206	Partial Differential Equations	CO1	:	Demonstrate the Ideas of Differential Equations in a Coherent and Meaningful Manner for Solving Real World Problems.
		CO2	:	Analyze the Solution to Explain the Underlying Physical Processes.
		CO3	:	Formulate Physical Problems as PDE using Conservation Laws.
PMAM207	Classical Mechanics	CO1	:	Define Mechanical Concepts related to Discrete and Continuous Mechanical Systems.
		CO2	:	Describe the Vibrations of Discrete and Continuous Mechanical System.
		CO3	:	Derive Planar and Spatial Motion of a Rigid Body.
PMAM208	Operations Research	CO1	:	Understand the Characteristics of Decision-Making Environments.
		CO2	:	Solve Transportation Models and Assignment Models.
		CO3	:	Design New Simple Models like CPM, MSPT to Improve Decision – Making Skills.
PMAX201/ PMAX202	Mathematics for High School Students \Elementary Mathematics for Higher Secondary Students	CO1	:	Understand Mathematics and to Teach Easily.
		CO2	:	Apply National and State Standards for Mathematics education to develop content-Appropriate Lessons
		CO3	:	Use and Compare Different Assessment Techniques
PMAM305	Complex Analysis	CO1	:	Recognize good foundation on Cauchy theorem at advanced level.
		CO2	:	Demonstrate the Definite Integrals of entire functions

		CO3	:	Test in-depth understanding of Entire functions.
		CO4	:	Analyse the Functions with mean value property.
		CO5	:	Develop Insight into periodic functions.
PMAM310	Fluid Dynamics	CO1	:	Understand the fluids based on the physical properties of a fluid.
		CO2	:	Descibe the kinematical properties of a fluid element.
		CO3	:	Test in-depth understanding of three dimensional flows.
		CO4	:	Analyse the two dimensional flows.
		CO5	:	Construct models of viscous flow.
PMAM314	Topology	CO1	:	Recognize terms, definitions and theorems related to metric spaces.
		CO2	:	Demonstrate concepts such as open and closed sets, interior, closure and boundary.
		CO3	:	Examine Urysohn's Lemma and Tietze Extension Theorem.
		CO4	:	Describe the theoretical concepts of the Components of a Space.
		CO5	:	Develop new topological spaces by using Weierstrass Theorem.
PRMC301	Research Methodology	CO1	:	Recall the concepts of research Methodology.
		CO2	:	Recognise the Research problem and research design.
		CO3	:	Apply some data in research questions to do better research.
		CO4	:	Appraise a research proposal or industry project plan.
		CO5	:	Design the documentation and ethics proposals.
PMAI312	Number Theory andCryptography	CO1	:	Recall the Divisibility and congruences.
		CO2	:	Understand the Primitive Roots and power residues.
		CO3	:	Test different types of security codes and their techniques.
		CO4	:	Compare the algorithms required for public key cryptography.
		CO5	:	Construct cryptographic and number-theoretic algorithms.
PMAM405	Functional Analysis	CO1	:	Describe the fundamental properties of banach spaces.
		CO2	:	Implement Operator theory of Operators on a Hilbert space.
		CO3	:	Test the notions of dot product and Hilbert space.
		CO4	:	Analyse the spectral theorem to the resolution of integral equations.
		CO5	:	Create the fixed point theorem to solve differential equations and integral equations.
PMAM409	Numerical Analysis	CO1	:	Identify the Transcendental and Polynomial equations.

		CO2	:	Describe the error analysis, error estimate and Power method.
		CO3	:	Examine and apply the concept of least square approximation.
		CO4	:	Select the concept of Numerical integration and numerical differentiation for research.
		CO5	:	Develop the applications on ordinary differential equations.
PMAM411	Differential Geometry	CO1	:	Recall the Fundamental Existence theorem for Space curves.
		CO2	:	Explain the fundamentals of differential geometry primarily by focusing on the surfaces.
		CO3	:	Examine and apply the concept of Geodesics.
		CO4	:	Analyse the concept of Non intrinsic properties of a surface.
		CO5	:	Develop arguments in the geometric description of curves and surfaces

DEPARTMENT: COMPUTER SCIENCE

Course Code	Course Title	Course Outcome		
UCSM110/ UCAM110	Principles of Information Technology	CO1	:	Develop Logic for Assembly Language Programming.
		CO2	:	Analyze the Performance of Commercially available Computers.
		CO3	:	Examine the Construction of CPU, know Registers and Bus Systems.
UCSM109/ UCAM111	Programming Methodology	CO1	:	Be familiar with Good Programming Practice, and apply it in various programs.
		CO2	:	Know about Insecure Functions to be avoided.
		CO3	:	Understand the Compilation Process in File concepts.
UCSR110/ UCAR106	Programming Methodology - Practical	CO1	:	Apply Problem-Solving Knowledge and Skills to Write Effective C++ Programs.
		CO2	:	Appreciate the use of Simple Data Structure such as Array, Structures and Unions.
		CO3	:	Identify Opportunities to Write Modularized Code.
UCSM207/ UCAM206	Data Structures	CO1	:	Understand and Restate the Fundamentals of Basic Data Structures.
		CO2	:	Implement Basic Data Structures such as Stacks, Queues and Trees.
		CO3	:	Implement the Algorithms for Sorting and Searching
UCSM208/ UCAM207	Python Programming	CO1	:	Define and Demonstrate the Use of Built-in Data Structures “Lists” and “Dictionary”.

		CO2	:	Design and Implement GUI Application and How to Handle Exceptions and Files
		CO3	:	Implement a Program to solve a Real World Problem.
UCSR207/ UCAR205	Data Structures using Python - Practical	CO1	:	Understanding the writing Algorithms in solving Problems with the help of Fundamental Data Structures.
		CO2	:	Analyze the basic Concepts of Lists, Tuples, Trees and Graphs.
		CO3	:	Implement the Concepts of Searching and Sorting Techniques.
UCSM305	Java Programming	CO1	:	Understand object oriented programming features and concept
		CO2	:	Learn different types of inheritance, polymorphism, interfaces and packages.
		CO3	:	Identify the concepts of Multithreading and Exception handling to develop efficient and error free codes.
		CO4	:	Compare different string function.
		CO5	:	Implement windows based application in java
UCSM307	Software Engineering	CO1	:	Recall and understand various software processing models and requirement engineering
		CO2	:	Determine the requirements and design the process
		CO3	:	Analyze project estimation, scheduling and software quality.
		CO4	:	Evaluate various models and post development activities.
		CO5	:	Design a software application that satisfies userrequirements
UCSR308	Java Programming – Practical	CO1	:	Recall and understand various software processing models and requirement engineering
		CO2	:	Determine the requirements and design the process
		CO3	:	Analyze project estimation, scheduling and software quality.
		CO4	:	Evaluate various models and post development activities.
		CO5	:	Design a software application that satisfies userrequirements
UCSM409	Operating Systems	CO1	:	Understand the basic structure of Operating Systems
		CO2	:	Apply various scheduling algorithms in process management
		CO3	:	Compare the various memory management techniques.

		CO4	:	Classify the different disk scheduling and allocation methods.
		C05	:	Formulate Linux Kernel modules.
UCSR412	Operating System Practical	CO1	:	Examine knowledge about Operating System, Memory Management and scheduling concepts.
		CO2	:	Recall & Relate the concepts, structure and design of operating systems
		CO3	:	Discuss and compare the differing structures of operating systems
		CO4	:	Investigate the features of Unix Operating System to implement, Memory Management and scheduling concepts
		CO5	:	Compare the performance of various CPU Scheduling Algorithms & IPC, Process Management
PCSM113	Principles of Concurrent Programming	CO1	:	Understand the Conceptual Foundations of Concurrent Programming.
		CO2	:	Analyse the Effective ways of Structuring Concurrent and Distributed Programs.
		CO3	:	Implement the Concurrent Programming Abstractions Demonstrated by means of Functional Languages
PCSM116	Digital Image Processing	CO1	:	Apply Image Enhancement and Restoration Techniques.
		CO2	:	Use Image Compression and Segmentation Techniques.
		CO3	:	Apply Hough Transform for Line, Circle, and Ellipse Detections.
PCSM117	TCP / IP Networks	CO1	:	Apply Programming Skills in TCP/IP Network Model.
		CO2	:	Understand and Configure IP Addresses.
		CO3	:	Analyse of Data Traffic on TCP/IP Networks.
PCSM118	Compiler Design	CO1	:	Acquire Knowledge of Modern Compiler & its Features.
		CO2	:	Learn & use Modern tools and Technologies for Designing New Compiler.
		CO3	:	Implement the Knowledge of Patterns, Tokens & Regular Expressions.
PCSM119	Mobile Computing	CO1	:	Understand the Infrastructures and Technologies of Mobile Computing Technologies.
		CO2	:	Impart Knowledge on Principles and Theories of Mobile computing Technologies.
		CO3	:	Analyse the Future of Mobile Computing Technologies and Applications.
PCSR107	Digital Image Processing – Practical	CO1	:	Understand an Image Transformation and its Histogram.

		CO2	:	Apply Image Enhancement and Restoration Techniques.
		CO3	:	Implement Image Compression and Segmentation Techniques
PCSR108	TCP/IP Networks – Practical	CO1	:	Apply Programming Skills in TCP/IP Network Model.
		CO2	:	Understand and Configure IP Addresses.
		CO3	:	Analyse of Data Traffic on TCP/IP Networks.
PCSM214	Big Data Analytics	CO1	:	Ability to Identify the Characteristics of Datasets and Compare the Trivial Data and Big Data for Various Applications.
		CO2	:	Ability to Solve Problems Associated with Batch Learning and Online Learning, and the Big data Characteristics.
		CO3	:	Ability to Integrate Machine Learning Libraries and Mathematical and Statistical Tools with Modern Technologies like Hadoop and Map reduce.
PCSM215	Machine Learning	CO1	:	Understand a Wide Variety of Learning Algorithms.
		CO2	:	Develop Learning Models from Data.
		CO3	:	Evaluate Models Generated from Data
PCSM216	Blockchain Technology	CO1	:	Evaluate Blockchain Technologies, their core Components, Protocols, and use Cases.
		CO2	:	Design and Build Blockchain Applications.
		CO3	:	Inculcate the State of the art and Emerging use cases of Blockchain.
PCSM217	Software Testing	CO1	:	Create test Strategies and Plans, Design Test Cases, Prioritize and Execute them.
		CO2	:	Apply Modern Software Testing Processes in relation to Software Development.
		CO3	:	Manage Incidents and Risks within a Project.
PCSR208	Big Data Analytics – Practical	CO1	:	Perform Data Gathering of Large Data from a Range of Data Sources.
		CO2	:	Critically Analyse Existing Big Data Datasets and Implementations, Taking Practicality, and Usefulness Metrics into Consideration.
		CO3	:	Understand and Demonstrate the Role of Statistics in the Analysis of Large of Datasets.
PCSR209	Machine Learning using Google CoLab – Practical	CO1	:	Apply the Fundamental Concepts in Machine Learning.
		CO2	:	Evaluate the Scikit-Learn API.
		CO3	:	Develop Algorithms for Different Types of Dataset.
PCSM314	Cyber Security	CO1	:	State the cyber security needs of an organization.
		CO2	:	Discuss software vulnerabilities and security solutions to reduce the risk of exploitation.
		CO3	:	Classify security issues in networks and computer systems to secure an IT infrastructure.
		CO4	:	Decide policies and procedures to manage

				enterprise security risks.
		CO5	:	Develop secure software.
PCSM316	Augmented Virtual Reality	CO1	:	Demonstrate a system or process to meet given specifications with realistic constraints.
		CO2	:	Discover problem statements and function as a member of design team.
		CO3	:	Analyze technical resources
		CO4	:	Summarize technical documents and technical oral presentations related to design mini project results
		CO5	:	Formulate virtual reality, augmented reality and using them to build Biomedical engineering applications
PCSM317	Artificial Intelligence and Robotics	CO1	:	Understand the concept of Artificial Intelligence.
		CO2	:	Represent a problem using first order and predicate logic
		CO3	:	Provide the apt agent strategy to solve a given problem
		CO4	:	Interpret plan to solve a problem
		CO5	:	Devise path planning method for navigation
PCSM313	Research Methodology	CO1	:	Understanding research and its goals, Critical thinking, Techniques for generating research topics
		CO2	:	Compare different research design.
		CO3	:	Apply and analyze different methods of data collection
		CO4	:	Justifying the interpretation and report writing.
		CO5	:	Summarize the techniques for research.
PCSI301	Fuzzy Set and Systems	CO1	:	Understand the basic ideas of fuzzy sets, operations and properties of fuzzy sets and also about fuzzy relations.
		CO2	:	Demonstrate the concepts of fuzzy relations.
		CO3	:	Analyze the features of membership functions, fuzzification process and defuzzification process.
		CO4	:	Compare different forms of fuzzy logic operation
		CO5	:	Summarize about fuzzy C-Means clustering.
PCSR307	Cyber Security Practical	CO1	:	Demonstrate the models, and algorithms of AI
		CO2	:	Analysis and design of information systems using sensors
		CO3	:	Develop the structures and algorithms of a selection of techniques.
		CO4	:	Create several applications using sensors and actuators
		CO5	:	Quantify uncertainties to make the best decisions for the company.
PCSR308	Artificial Intelligence – Practical	CO1	:	Describe the cyber security needs of an organization.
		CO2	:	Illustrate software vulnerabilities and security solutions to

				reduce the risk of exploitation.
		CO3	:	Classify security issues in networks and computer systems to secure an IT infrastructure.
		CO4	:	Decide policies and procedures to manage enterprise security risks.
		CO5	:	Develop secure software.
PCSM407	Fog Computing	CO1	:	Describe and Explore research, frameworks, applications in edge and fog computing.
		CO2	:	Explain underlying technologies, limitations, and challenges along with future Research Direction and Discuss generic Conceptual Framework for Optimization Problems in Fog Computing.
		CO3	:	Apply the General Data Protection Regulation (GDPR), an discuss how these legal constraints affect the design and Operation of IOT Applications in fog and Cloud Environments.
		CO4	:	Evaluate and analyze the Protocols related to Fog.
		CO5	:	Construct the Data Management and Security Principles.
PCSM408	Natural Language Processing	CO1	:	Understand the fundamental of natural language processing
		CO2	:	Apply innovative application using NLP components.
		CO3	:	Analyze NLP models and algorithms using both the traditional symbolic and the more recent statistical approaches.
		CO4	:	Estimate a rule based system to tackle morphology/syntax of a language
		CO5	:	Formulate the problems and their solutions using appropriate descriptions, visualizations, and statistics.

DEPARTMENT: COMPUTER APPLICATION

Course Code	Course Title	Course Outcome		
UCAM110	Principles of Information Technology	CO1	:	Develop Logic for Assembly Language Programming.
		CO2	:	Analyze the Performance of Commercially Available Computers.
		CO3	:	Examine the Construction of CPU, Know Registers and Bus Systems.
UCAM111/ UCSM109	Programming Methodology	CO1	:	Be familiar with Good Programming Practice, and Apply it in various Programs.
		CO2	:	Know about Insecure Functions to be Avoided.
		CO3	:	Understand the Compilation Process in File Concepts.
UCAR106/ UCSR110	Programming Methodology -Practical	CO1	:	Apply Problem-Solving Knowledge and Skills to Write Effective C++Programs.

		CO2	:	Appreciate the use of Simple Data Structure such as Array, Structures and Unions.
		CO3	:	Identify Opportunities to write Modularized Code.
UMAA110	Mathematical Methods I	CO1	:	Understand the Relations between Sets and their Property.
		CO2	:	Draw and Interpret Venn Diagrams of Set Relations and Operations.
		CO3	:	Apply set Theory to Solve Real Life Problems.
UCAM206/ UCSM207	Data Structures	CO1	:	Understand and Restate the Fundamentals of Basic Data Structures.
		CO2	:	Implement Basic Data Structures such as Stacks, Queues and Trees.
		CO3	:	Implement the Algorithms for Sorting and Searching.
UCAM207/ UCSM208	Python Programming	CO1	:	Define and Demonstrate the Use of Built-in Data Structures "Lists" and "Dictionary".
		CO2	:	Design and Implement GUI Application and How to Handle Exceptions and Files
		CO3	:	Implement a Program to Solve a Real World Problem.
UCAR205/ UCSR207	Data Structures using Python -Practical	CO1	:	Understanding the Writing Algorithms in Solving Problems with the Help of Fundamental Data Structures.
		CO2	:	Analyze the Basic Concepts of Lists, Tuples, Trees and Graphs.
		CO3	:	Implement the Concepts of Searching and Sorting Techniques.
UMAA216	Mathematical Methods-II	CO1	:	Determine Gradient Vector Fields and Find Potential Functions.
		CO2	:	Evaluate Line Integrals Directly and by the Fundamental Theorem.
		CO3	:	Solve Problems in Mathematical Applications using the Integral.

DEPARTMENT: PSYCHOLOGY

Course Code	Course Title	Course Outcome		
UPSM101	General Psychology- I	CO1	:	Understand the Theoretical framework of Psychology.
		CO2	:	Analyse various Psychological processes like Sensations, Perceptions, Emotions, Learning, Intelligence, Personality, etc.
		CO3	:	Acquire the basic concepts and Applications of Psychology in everyday Life.

COURSE OUTCOMES – 2021-2022

UPSM102	Developmental Psychology- I	CO1	:	Understand the Stages in Prenatal Development.
		CO2	:	Demonstrate the Key Concepts, Theories, and Research Methods in Lifespan Developmental Psychology.
		CO3	:	Describe the links between Developmental Processes in Childhood and later Life and Development in Socio-Cultural Context.
UPSA101	Human Physiology	CO1	:	Understand the Human Consciousness and Nature of Physiological Psychology.
		CO2	:	Describe Neural Communications.
		CO3	:	Discuss the Physiology behind Sensations.
UPSM201	General Psychology-II	CO1	:	Describe the Processes of Sensation and Perceptions.
		CO2	:	Elaborate the Concepts, Theories, Research, Physiological & Psychological Processes behind Human Motivation and Emotion.
		CO3	:	Explain how Psychological Needs and Cognitive Processes affect Motivation.
		CO4	:	Compare and Contrast Motivation and Emotion.
UPSM202	Developmental Psychology-II	CO1	:	Understand the Nature of Psychosocial Development.
		CO2	:	Comprehend the Theories and Research in Human Development.
		CO3	:	Describe the Developmental Stages during Birth to Late Adulthood.
UPSA201	Elementary Statistics	CO1	:	Define the Basic Concepts in Inferential and Descriptive Statistics.
		CO2	:	Apply the Concepts and Procedures of Descriptive Statistics.
		CO3	:	Describe the Principles of Probability and Hypothesis Testing.
		CO4	:	Interpret Common Inferential Statistical Tests and Correlation Methods.
UPSE201	Psychology for Effective Living	CO1	:	Describe the Major Theories and Models of Psychological Adjustment to ModernLife.
		CO2	:	Analyse the Nature of Stress and its Effect on the Health of Individuals.
		CO3	:	Evaluate how People are Influenced by the Social World in which they Live.
		CO4	:	Discuss the Research on Friendships, Intimate Relationships, Family Relationships and Explain how they relate to Psychological Adjustment.
UPSM303	Social Psychology – I	CO1	:	Recognize the Techniques, typically used to gain Compliance

		CO2	:	Demonstrate Knowledge and Examination Procedures of theMajor Theories and Research in Social Psychology.
		CO3	:	Trace the Evolution of Current Social Psychological Knowledge to their Historical Roots, in the Global and IndianContext.
		CO4	:	Identify the Techniques for Impression Management
		CO5	:	Justify the importance of Self-Growth, with Self-Esteem andSelf-Concept.
UPSR302	Experimental Psychology-I	CO1	:	Knowledge on various Experiments in Psychology
		CO2	:	Skills to demonstrate effective conduction of experiments
		CO3	:	Acquire psychological skills in learning and memory domain
		CO4	:	Generate an interest in working in the community with aPsychological outlook
		CO5	:	Report writing skills for experiments involving HumanParticipants
UPSA301	Principles of Management	CO1	:	Understanding Managerial Functions like Planning, and BasicKnowledge of the Aspect of Management
		CO2	:	Understand the Planning process in the Organization
		CO3	:	Understand the concept of Organization
		CO4	:	Demonstrate the ability to Direct, Leadership, and Communicate Effectively
		CO5	:	Analysis Isolate Issues and Formulate best Control Methods
UPSM403	Social Psychology – II	CO1	:	Demonstrate the ability to Articulate Independently, Human Social Behaviour and the Cultural Influences that affect our Behaviour.
		CO2	:	Describe, discuss and analyse major issues and concepts in thefield of Social Psychology
		CO3	:	Compare and contrast the Research Methodologies used in the Scientific Study of Human Social Behaviour.
		CO4	:	Demonstrate the ability to state the Fundamental Principles ofSocial Psychology
		CO5	:	Describe the Dynamics of group Behaviour of Social Influence,such as Altruism, Conformity, Obedience, Deindividuation, Leadership,

				Intergroup relations, and Conflict and Cooperation
UPSR402	Experimental Psychology-II	CO1	:	Knowledge on various Experiments in Psychology
		CO2	:	Skills to demonstrate effective conduction of experiments
		CO3	:	Acquire psychological skills in learning and memory domain
		CO4	:	Generate an interest in working in the community with aPsychological outlook
		CO5	:	Report writing skills for experiments involving HumanParticipants
UPSA401	Research Methodology	CO1	:	Identify different Research Problems and solve a ResearchProject.
		CO2	:	Paraphrase the Review of Literature while doing the ResearchProject in Group.
		CO3	:	Implement an appropriate Statistic in SPSS while Analysing theData.
		CO4	:	Identify appropriate Research Designs and Systematically able touse them while carrying out a Research Project in a Group.
		CO5	:	Compare different Methodologies in relation to different kinds of Research Problems in Psychology.
UPSE401	Guidance and counselling	CO1	:	Understand Human Behaviour at Different Stages
		CO2	:	Recognize Behavioural Problems and Examine Strategies forPositive Behaviour Management
		CO3	:	Identify Different Types of Exceptionalities
		CO4	:	Relate Counselling theory to issues in Counselling
		CO5	:	Develop an Ethical Approach to Counselling

COURSE OUTCOMES – 2021-2022

DEPARTMENT: TAMIL

Course Code	Course Title	Course Outcome		
UTAL107	பொதுத்தமிழ் 1	CO1	:	எழுத்துகளின் அறிமுகம் பற்றி அறிந்து கொள்வர்.
		CO2	:	கவிதை எழுதுவற்கான நுணுக்கங்களை புரிந்து கொள்வர்
		CO3	:	தமிழ் இலக்கிய நூல்களின் தோற்றம் பற்றி அறிந்து கொள்வர்.
UTAL108	சிறப்புத்தமிழ் 1	CO1	:	கவிதை இலக்கியம் குறித்த தெளிவினை அடைவர்.
		CO2	:	உரைநடை இலக்கியத்தின் முழுத்திறனை அறிவர்.
		CO3	:	படைப்பிலக்கியத்தில் ஆளுமைத்திறன் பெறுவர்.
UTAM102	நன்னூல் - எழுத்து 1	CO1	:	எழுத்துக்களின் வகைகள் குறித்து அறிந்து தெளிவர்.
		CO2	:	எழுத்து இலக்கணம் குறித்த சரியான புரிதலை அடைவர்.
		CO3	:	எழுத்துக்களை சொற்களாக சரியாக பயன்படுத்தும் திறன் பெறுவர்.
UTAM110	தமிழ்மொழி வரலாறு 1	CO1	:	பிற மொழிக்கும் தமிழ் மொழிக்கும் உள்ள வேறுபாடு குறித்து அறிவர்.
		CO2	:	தமிழ்மொழி மாறியும் வளர்ந்தும் வந்துள்ள தன்மையை அறிவர்.
		CO3	:	எந்தவொரு மொழியிலும் மாற்றங்கள் தவிர்க்க இயலாதது என்பதை உணர்ந்து

				மொழியைக் கையாளும் திறன் பெறுவர்
UTAA111	இக்கால இலக்கியங்கள்	CO1	:	இக்கால இலக்கியத்தின் கருப்பொருட்களின் தன்மைகளை அறிவர்.
		CO2	:	புதிய இலக்கிய வடிவங்களை அறிவர்.
		CO3	:	கவிதை, சிறுகதை ஆகியவற்றை படைக்கும் திறன் பெறுவர்.
UTAL207	பொதுத்தமிழ் 2	CO1	:	ஆன்மீக ஈடுபாட்டினையும், படைப்பாற்றலையும் வளர்த்துக் கொள்வர்
		CO2	:	எளிய முறையில் இலக்கண அறிவைப் பெறுவர்
		CO3	:	தமிழ் இலக்கியங்களின் வாயிலாக சமூகத்தை மேம்படுத்தும் ஆற்றல் பெறுவர்.
UTAL208	சிறப்புத்தமிழ் 2	CO1	:	இலக்கியத்தின் பெருமை குறித்து அறிந்து கொள்வர்
		CO2	:	கவிதை உரைநடை படைப்புகள் பற்றி புரிந்து கொள்வர்.
		CO3	:	இலக்கியங்களை ஆராயும் திறன் பெறுவர்
UTAM202	நன்னூல் -சொல்	CO1	:	சொற்களின் வகைகளை அறிந்து தெளிவர்..
		CO2	:	சொல் இலக்கணம் குறித்த சரியான புரிதலை அடைவர்.
		CO3	:	சொற்களை சரியாக பயன்படுத்தும் திறன் பெறுவர்
UTAM206	சிற்றிலக்கியங்கள்	CO1	:	சிற்றிலக்கியத்தின் வகை மற்றும் அமைப்புகளை அறிந்து தெளிவர்.
		CO2	:	சிற்றிலக்கியத்திற்குரிய தனித்தன்மைகளை புரிந்து கொள்வர்

		CO3	:	சிற்றிலக்கியத்தின் கூறுகளை உணர்ந்து புதுமையை படைக்கும் திறன் பெறுவர்
UTAA207	தமிழ் இலக்கிய வரலாறு	CO1	:	தமிழ் இலக்கியங்கள் காலந்தோறும் தோன்றி வளர்ந்த வரலாற்றை அறிவர்.
		CO2	:	இலக்கியங்களுக்கும் அரசியல் வரலாற்றுக்கும் இடையே உள்ள உறவைப் புரிந்து கொள்வர்.
		CO3	:	போட்டித் தேர்வுகளில் தேர்ச்சிப் பெறும் திறன் பெறுவர்
UTAE201	படைப்பிலக்கியம்	CO1	:	இலக்கியப் படைப்பாக்க உத்திகளை அறிவர்.
		CO2	:	இதழாசிரியராவதற்கான தகுதிப்பாட்டை அடைவர்
		CO3	:	உரைநடை வகைகளை படைப்பதில் திறம் பெறுவர்.
PTAM102	தொல்காப்பியம் – எழுத்து	CO1	:	தமிழ் இலக்கணத்தின் தொடர் அமைப்புகள் பற்றி அறிவர்.
		CO2	:	எழுத்து இலக்கணம் குறித்து புரிந்து கொள்வர்
		CO3	:	தொடர் அமைப்புகள் குறித்து தெளிந்து வாக்கியங்களை கட்டமைக்கும் திறன் பெறுவர்
PTAM104	தொல்லியல்	CO1	:	அகழாய்வு பற்றி அறிந்துகொள்வர்
		CO2	:	தொல் எழுத்துவடிவம் குறித்து புரிந்து கொள்வர்.
		CO3	:	தமிழரின் தொன்மையை உணர்ந்து அதனை இலக்கியங்கள் வழி ஆராயும் திறன் பெறுவர்
PTAM107	ஒப்பிலக்கியம்	CO1	:	இலக்கியத்தின் ஒப்புமை குறித்து அறிந்து கொள்வர்.

		CO2	:	ஓப்பிலக்கியத்தின் தோற்றப் படிநிலைகளைப் புரிந்துக்கொள்வர்
		CO3	:	ஓப்பிலக்கிய வகைகளைக் கையாள்வதில் பயிற்சி பெறுவர்.
PTAM108	தமிழ் இலக்கிய சூழலில் பெண்ணியம்	CO1	:	பெண்ணியச் சிந்தனைகள் குறித்து அறிந்துக்கொள்வர்
		CO2	:	பெண் எழுத்தாளர்களின் படைப்பாக்க உத்திகள் குறித்த தெளிவினைப் பெறுவர்
		CO3	:	சமகால சமூக மற்றும் அரசியல் பிரச்சினைகளை பெண்ணியக் கண்ணோட்டத்தோடு அணுகுவர்
PTAM111	நவீன இலக்கியம்	CO1	:	நவீன இலக்கியத்தின் மீதான ஆர்வத்தைப்பெறுவர்
		CO2	:	புதிய இலக்கியத்தின் வடிவங்களை புரிந்துகொள்வர்
		CO3	:	கவிதை, சிறுகதை ஆகியவற்றை படைக்கும் திறன் பெறுவர்
PTAM203	தொல்காப்பியம் - சொல்	CO1	:	தமிழ் இலக்கணத்தில் சொற்களில் ஏற்படும் குற்றங்களை அறிந்து கொள்வர்.
		CO2	:	வாக்கியங்களை அமைக்கும் முறையினையம் சொற்களின் வகைகளையும் அறிந்து கொள்வர்.
		CO3	:	இலக்கணத்தின் படிநிலைகளை அறிந்து அன்றாட வாழ்வில் இலக்கணத்தினை பயன்படுத்தும் திறம் பெறுவர்.
PTAM209	திறனாய்வுக்கோட்பாடுகள்	CO1	:	உலகளாவியத் திறனாய்வுக் கோட்பாடுகளை அறிந்து கொள்வர்.
		CO2	:	கோட்பாடுகளை இலக்கியத்தோடு ஒப்பீட்டு திறனாய்வுச் செய்வர்.
		CO3	:	நவீன திறனாய்வு வகைமைகளை அறிந்து கொள்வர்
PTAM210		CO1	:	வாழ்வியல் நெறிகளை உணர்ந்து கொள்வர்.

	அறஇலக்கியங்கள்	CO2	:	வாழ்வியல் நெறிகளை அறிந்து அற இலக்கியங்கள் வழி நல்வழிப்படுத்திக் கொள்வர்.
		CO3	:	பிற்கால அற நூல்கள் பற்றி அறிந்து கொள்வர்.
PTAM211	அகராதியியல்	CO1	:	அகராதி வரலாற்றினை அறிந்து கொள்வர்
		CO2	:	அகராதி உருவாக்கும் முயற்சிகளில் ஆர்வம் கொண்டு இருப்பர்.
		CO3	:	தமிழ் அகராதி வகைகள் மற்றும் வளர்ச்சி நிலைகள் குறித்து அறிந்து கொள்வர்.
PTAM213	காப்பியங்கள்	CO1	:	வரலாற்று நிகழ்வுகளைக் கண்டறிவதற்கும் புராணக் கருத்துக்களை அறிந்து கொள்வதற்குமான வழிமுறைகளை எடுரைக்கும் திறனைப் பெற்றுக் கொள்வர்.
		CO2	:	காப்பியங்களின் தொன்மையினையும் சிறப்புக் கூறுகளையும் கண்டறிந்து கொள்வர்.
		CO3	:	வரலாற்று நிகழ்வுகளைப் பற்றிய புரிதலைப் பெற்று கொள்வர்.
PTAE202	சுற்றுலாவியல்	CO1	:	சுற்றுலா இடங்களைப் பற்றி அறிந்துகொள்வர்.
		CO2	:	சுற்றுலாவின் பண்பாட்டு கலாச்சாரத்தினை தெரிந்து கொள்வர்.
		CO3	:	சுற்றுலா துறையில் பணி வாய்ப்பினை பெற்று கொள்வர்.
UTAL307	பொதுத்தமிழ்	CO1	:	தமிழில் தொல் மற்றும் நவீன இலக்கியங்கள் குறித்து அறிந்துகொள்வர்.
		CO2	:	தமிழிலக்கியத்தின் வளர்ச்சி நிலைகள் மற்றும் தனித்தன்மைகளை புரிந்துகொள்வர்.
		CO3	:	தமிழிலக்கிய வகைமைகளின் வாயிலாக வாழ்வியல் நெறிகளைப் பொருத்திப்பார்ப்பர்.
UTAL308	சிறப்புத்தமிழ்	CO1	:	தமிழிலக்கிய வளர்ச்சி நிலைகளை இலக்கியங்களின் வழி பகுத்தாராய தெரிந்து கொள்வர்.

		CO2	:	தமிழிலக்கியங்களை கற்றுதேர்ந்து சமூகத்தில் நன்நடத்தையுடன் செயல்படும் திறன் அறிந்துகொள்வர்.
		CO3	:	தமிழில் தொல் மற்றும் நவீன இலக்கியங்கள் குறித்து அறிந்துகொள்வர்.
UTAM303	யாப்பருங்கலக்காரிகை	CO1	:	யாப்பு இலக்கணம் குறித்து அறிந்துகொள்வர்.
		CO2	:	யாப்பின் உறுப்புகள் குறித்து தெளிவாக புரிந்து கொள்வர்.
		CO3	:	பா இனங்களை இலக்கியங்களுடன் பொருத்திப்பார்க்கும் திறன் பெறுவர்.
UTAM304	காப்பியங்கள்	CO1	:	காப்பியங்கள் புலப்படுத்தும் நற்சிந்தனைகளை அறிந்துகொள்வர்.
		CO2	:	காப்பியங்களின் தொன்மையினையும் சிறப்புக் கூறுகளையும் புரிந்து கொள்வர்.
		CO3	:	காப்பியங்களின் தனித்தன்மைகளை பொருத்திப்பார்ப்பர்.
UTAM306	கவிதை இலக்கியம்	CO1	:	கவிதை இலக்கியத்தின் தொன்மையினையும் தற்கால போக்குகளையும் அறிந்துகொள்வர்.
		CO2	:	மரபுக் கவிதை, புதுக்கவிதை குறித்து தெளிவாக புரிந்து கொள்வர்.
		CO3	:	கவிஞர்களின் படைப்பாக்க உத்திகளை பொருத்திப்பார்ப்பர்.
UTAA306	தமிழக வரலாறும் பண்பாடும்	CO1	:	தமிழக வரலாறு மற்றும் பண்பாடு குறித்து அறிந்துகொள்வர்.
		CO2	:	சங்க கால தமிழ் மக்களின் கலை, வாழ்வியல் முறை, சமூக நிலை ஆகியவற்றைப் புரிந்து கொள்வர்.
		CO3	:	மூவேந்தர்களின் ஆட்சி முறை, தமிழ் தொண்டு ஆகியவை குறித்து பகுத்தாய்வர்.
UTAL405	பொதுத்தமிழ் 4	CO1	:	தமிழ் இலக்கியத்தின் தோற்றம் வளர்ச்சி நிலைகளை அறிந்துகொள்வர்.
		CO2	:	தமிழ் இலக்கிய வகைமைகளின் தனித்தன்மைகளை புரிந்து கொள்வர்.

		CO3	:	இலக்கியத்தின் வழி வாழ்வியல் நெறிமுறைகளை மதிப்பிடச் செய்வர்.
UTAL406	சிறப்புத்தமிழ் 4	CO1	:	தமிழ் இலக்கியத்தின் தோற்றம் வளர்ச்சி நிலைகளை அறிந்துகொள்வர்.
		CO2	:	தமிழ் இலக்கிய வகைமைகளின் தனித்தன்மைகளை புரிந்து கொள்வர்.
		CO3	:	இலக்கியத்தின் வழி வாழ்வியல் நெறிமுறைகளை மதிப்பிடச் செய்வர்.
UTAM401	புறப்பொருள்வெண்பா மாலை	CO1	:	புற இலக்கணங்களை அறிந்துகொள்வர்.
		CO2	:	புற இலக்கணங்களை பண்டைய மக்களின் வாழ்வியலை இக்கால மக்களுக்கு புரிந்து கொள்வர்.
		CO3	:	புற இலக்கணங்களை இலக்கியத்தில் பகுத்தாராயச் செய்வர்.
UTAM405	அறஇலக்கியங்கள்	CO1	:	அறம் குறித்து அறிந்துகொள்வர்.
		CO2	:	அறம் வலியுறுத்தும் வாழ்வியல் நெறிகளை புரிந்து கொள்வர்.
		CO3	:	நற்சிந்தனைகளையும் நற்கருத்துக்களையும் அற இலக்கியங்கள் வெளிப்படுத்தி மதிப்பிடச் செய்வர்.
UTAR401	பயிற்சி பட்டறை 2	CO1	:	செய்தி தயாரிப்பதற்கான அடிப்படைகளை அறிந்துகொள்வர்.
		CO2	:	நேர்க்காணல் குறித்து புரிந்து கொள்வர்.
		CO3	:	செய்தியினை சூழலுக்கு ஏற்ப பகுத்தாராய செய்வர்.
UTAA404	நாட்டுப்புறவியல்	CO1	:	நாட்டுப்புற மக்களின் வாழ்க்கை முறைகள், பழக்க வழக்கங்கள், சடங்குகள், விளையாட்டுகள், மருத்துவம் போன்றவற்றை அறிந்துகொள்வர்.
		CO2	:	நாட்டுப்புற இலக்கியத்தின் வகைமைகளையும் தனித்தன்மைகளையும் புரிந்து கொள்வர்.
		CO3	:	நாட்டுப்புற இலக்கியங்கள் மற்றும் கலைகள் குறித்து மதிப்பிடச் செய்வர்.

UTAE402	படைப்பிலக்கியம் 2	CO1	:	இலக்கியங்களில் தன்மைகளையும் படைப்பிலக்கியத்தின் தோற்றம், வளர்ச்சி குறித்து அறிந்துகொள்வர்.
		CO2	:	தமிழ் இலக்கிய மரபில் மரபுக்கவிதை, புதுக்கவிதைகளை படைக்கும் உத்திகளை புரிந்து கொள்வர்.
		CO3	:	தமிழ் இலக்கியங்களில் அமைந்துள்ள நாடகம் வகைமைகள் நாடக முன்னோடிகள் ஆகியவற்றை மதிப்பிடச் செய்வர்.
PTAM301	தொல்காப்பியம்- பொருளதிகாரம் - I	CO1	:	பண்டையத்தமிழ் மக்களின் அகம் மற்றும் புறம் தொடர்பான சிந்தனைகளை உலகளாவிய சிந்தனைத்தளத்தில் அறிந்துகொள்வர்.
		CO2	:	தமிழர்களின் போர் மரபு குறித்த கருத்தாக்கங்களை புரிந்து கொள்வர்.
		CO3	:	தமிழர்களின் வாழ்வியலில் இயற்கைக்கு அளித்த முக்கியத்துவத்தை மதிப்பிடச் செய்வர்.
PTAM305	ஆராய்ச்சி நெறிமுறைகள்	CO1	:	உலகளாவிய சிந்தனைத் தளத்தில் ஆய்வு நெறிமுறைகளை அறிந்துகொள்வர்.
		CO2	:	ஆய்வு குறித்த கருத்தாக்கங்களை விமர்சன முன்னோடி ஆய்வுகளில் பொருத்திய பார்க்கும் திறன் பெறுவர்.
		CO3	:	ஆய்வு நெறிமுறைகளின் பயன்பாட்டை வழிமுறையை பகுத்தாராயும் திறன் பெறுவர்.
PTAM306	உரையாசிரியர்கள்	CO1	:	உரையாசிரியர்களின் திறனாய்வு நெறிகளை விமர்சன சிந்தனையுடன் அறிந்துகொள்வர்.
		CO2	:	பண்டைய இலக்கிய மரபுகளின் தொடர்ச்சிக்கு செயல்மிகு கருத்து பரிமாற்றக் கருவியாக உரைகள் செயல்படும் முறையை புரிந்து கொள்வர்.
		CO3	:	இலக்கியங்களின் சமூக ஊடாட்டத்தல் உரைகளின் பங்கினை மதிப்பிடச் செய்வர்..

PTAM310	சிற்றிலக்கியங்கள்	CO1	:	உரையாசிரியர்களின் திறனாய்வு நெறிகளை விமர்சன சிந்தனையுடன் அறிந்து கொள்வர்.
		CO2	:	பண்டைய இலக்கிய மரபுகளின் தொடர்ச்சிக்கு செயல்மிகு கருத்து பரிமாற்றக் கருவியாக உரைகள் செயல்படும் முறையை புரிந்து கொள்வர்
		CO3	:	இலக்கியங்களின் சமூக ஊடாட்டத்தல் உரைகளின் பங்கினை மதிப்பிடுவர்.
PTAI301	மொழிபெயர்ப்பியல்	CO1	:	உலக தழுவிய நிலையில் மொழிபெயர்ப்பின் வரலாற்றினை அறிந்து கொள்வர்.
		CO2	:	வேற்றுமைகள் கடந்த நற்குடிமக்களை உள்ளடக்கிய சமுதாயத்தை உருவாக்குவதில் மொழிபெயர்ப்பின் பங்களிப்பைப் புரிந்து கொள்வர் .
		CO3	:	புதிய சிந்தனைகள் சமூகக் கருத்துப் பரிமாற்றதிற்குள் இடம்பெறும் முறைமையினை மொழிபெயர்ப்பின் பின்புலத்தில் மதிப்பிடுவர்.
PTAM401	தொல்காப்பியம்- பொருளதிகாரம் - I I	CO1	:	தொல்தமிழரின் மெய்ப்பாட்டுக் கோட்பாட்டை உலகு தழுவிய மெய்ப்பாட்டு சிந்தனை தளத்தில் புரிந்து கொள்வர்.
		CO2	:	தொல்காப்பியரின் உவமை கருத்தாக்கம் செயலூக்கமுள்ள கருத்துத் தொடர்பாடலில் பயன்படும் முறையை ஒப்பிட்டுச்செய்வர்.
		CO3	:	தொல்காப்பியரின் மரபியல் பின்புலத்தில் தமிழரின் சூழலியல் சிந்தனையை மதிப்பிடச் செய்வர்.
PTAM404	ஊடகவியல்	CO1	:	ஊடகங்கள் திறன்மிக்க கருத்துப்பரிமாற்றத்தில் செயல்படும் முறையை அறிந்து கொள்வர்.
		CO2	:	சமூக ஊடாட்டத்தின் வாயிலாக பண்பாட்டைக் கட்டமைப்பதில் ஊடகங்களின் செயல்பாட்டைப் புரிந்து கொள்வர்.

		CO3	:	ஊடகங்களில் வெளிவரும் செய்திகளின் மெய்மைத் தன்மையை விமர்சன ரீதியில் மதிப்பிடச் செய்வர்.
PTAM406	தமிழ்க்கணினி பயன்பாட்டியல்	CO1	:	கணினியின் தோற்றம் வளர்ச்சி பற்றி மாணவர்கள் அறிந்து கொள்வர்.
		CO2	:	கணினி பயன்பாட்டியலின் வாயிலாக மாணவர்களின் அறிவு திறனை வளர்த்து கொள்வர்.
		CO3	:	கணினியில் தமிழின் வடிவங்களை அறிந்து கொள்வர்.
PTAM409	சங்க இலக்கியம்	CO1	:	சங்க இலக்கியப் பாடல்களை விமர்சன சிந்தனையுடன் அறிந்து கொள்வர்.
		CO2	:	சங்க இலக்கியங்களில் வெளிப்படும் இயற்கை சூழல் சார்ந்த நிலவியலையும் வாழ்வியலையும் புரிந்து கொள்வர்.
		CO3	:	சங்க காலம் முதல் இக்காலம் வரை தொடரும் ஏறு தழுவுதல், பாவை நோன்பு போன்ற பண்பாடுகளின் சமூக ஊடாட்டத்தினைப் பகுத்தாரயச் செய்வர்.

COURSE OUTCOMES – 2020-2021

DEPARTMENT: ENGLISH

Course Code	Course Title	Course Outcome		
UENM509	English Language Teaching	CO1	:	Comprehend the methods and concepts related to the language learning.
		CO2	:	Attain and enhance competence in the four modes of literacy: LSRW
		CO3	:	Master the theoretical concepts of language and techniques of communicating oral and written English for specific purpose in general and academic context.
UENM512	Literary Criticism I	CO1	:	Understand the text and analyze it based on different theories
		CO2	:	Equip the skills to interpret the texts
		CO3	:	Explore the Theories and techniques of criticism
UENP501/ UENM513	Basics of Translation	CO1	:	Understand the origin and development of translation. .
		CO2	:	Acquire knowledge on various theories and techniques oftranslation.
		CO3	:	Enhance the conceptual and practical dimensions in Translation
UENM514	Postcolonial Literature	CO1	:	Understand the text from the perspectives of colonialism
		CO2	:	Observe the multifaceted meaning of Postcolonial literature
		CO3	:	Explore the Theories related to colonialism
UENM515	Commonwealth Literature	CO1	:	Demonstrate the polarized context of the colonizer and the colonized.
		CO2	:	Dismantle the myths of European superiority in literature with the study of writers of colonized countries.
		CO3	:	Analyze and appreciate the cross cultural and multicultural aspects.
UENM611	Literary Criticism-II	CO1	:	Understand the art of criticism
		CO2	:	Exploring various techniques to re-read the literary texts
		CO3	:	Familiar with the traditional method of criticism and its development over the years
UENM612	Shakespeare	CO1	:	Understand the origin of Shakespearean period
		CO2	:	Get to know about the themes and plays of

				his period
		CO3	:	Exploring different stage set up and properties to enact the plays
UENM613	Twentieth Century Literature	CO1	:	learn the history and development of modern literature
		CO2	:	Observe the recurrent themes and symbols used in modern literature
		CO3	:	Understand the techniques and writing style of modernism
UENO603	Journalism	CO1	:	Exploring the employment opportunities in the field ofJournalism
		CO2	:	Understand the Scope of Journalism
		CO3	:	Observe the various roles played by the Press
UENO604	Mass Communication	CO1	:	Understand the Mechanics of writing and posting in social media platform
		CO2	:	Explore the various connecting source to communicate with people of different nation
		CO3	:	Expand and build the connection with various digital platforms

DEPARTMENT: BUSINESS ADMINISTRATION

Course Code	Course Title	Course Outcome		
UBAM507	Research Methodology in Business	CO1	:	Identify the overall process of designing a research study from its Inception to its report.
		CO2	:	Evaluate the independent, dependent, and mediating variables in a study.
		CO3	:	Develop necessary critical thinking skills in order to evaluate different research approaches utilized in the service industries
UBAM508	Services Marketing	CO1	:	Describe the nature and scope of services marketing
		CO2	:	Evaluate the integrative knowledge of marketing issues associated with service productivity, perceived quality, customer satisfaction and loyalty
		CO3	:	Develop and justify marketing planning and control systems

				appropriate to service-based activities
UBAM509	Mercantile Law	CO1	:	Demonstrate an understanding of the Legal Environment of Business.
		CO2	:	Apply basic legal knowledge to business transactions.
		CO3	:	Communicate effectively using standard business and legal terminology.
UBAM504 / UCOM507 / UCCM507	Management Accounting	CO1	:	Make calculations with whole numbers of varying magnitude
		CO2	:	Identify different types of fractions and convert between them
		CO3	:	Use multiplication and division when evaluating expressions with decimals.
UBAM510	Business Informatics	CO1	:	Students will be able to analyze and Evaluate the role of information systems in supporting business processes and decision-making.
		CO2	:	Students will gain the skills to design, implement, and manage IT solutions that address specific business needs.
		CO3	:	Students will acquire the ability to use data analytics tools and techniques to support business decision-making.
UBAM612	Business Analytics for Managers	CO1	:	Enable all participants to recognize, understand and apply the language, theory and models of the field of business analytics.
		CO2	:	Foster an ability to critically analyze, synthesize and solve complex Unstructured business problems.
		CO3	:	Encourage an aptitude for business improvement, innovation and entrepreneurial action.
UBAM608	Strategic Management	CO1	:	Will be able to conduct comprehensive strategic analyses and formulate effective business strategies.
		CO2	:	Capable of implementing strategic plans and managing the processes to ensure successful execution.
		CO3	:	Equipped to foster innovation and maintain sustainable competitive advantages in dynamic business environments.
UCOM619 UCCM619 UBAM615	Financial Management	CO1	:	Demonstrate understanding of the goals of the finance manager.
		CO2	:	Identify the basic financial environment and institutions. Perform analytical reviews

				of financial results, proposals, and plans.
		CO3	:	Identify funding sources, instruments, and markets.
UBAM309/ UBAO610	Financial Markets and Services	CO1	:	Students will gain a thorough understanding of the structure, functions, and roles of various financial markets.
		CO2	:	Identify the main factors that could detract from that efficiency.
		CO3	:	Make an informed judgment about whether or to what extent a financial market satisfies the conditions of an efficient market
UBAO604	Customer Relationship Management	CO1	:	Develop understanding about customer relationship management concepts and frameworks.
		CO2	:	Develop skills to analyze and synthesize information and issues, related to customer Relationship management, from several perspectives.
		CO3	:	Enhance business communication skills required to work effectively within a marketing Team.
UBAO609	Consumer Affairs	CO1	:	Students will have an understanding about the existing law on consumer protection in India.
		CO2	:	Students will be conversant with major international instruments on consumer protection.
		CO3	:	Students will be aware of the basic procedures for handling consumer dispute
UBAO605	Retail Management	CO1	:	Identify key roles within retail businesses
		CO2	:	Classify the general steps of strategic planning in retail
		CO3	:	Students will be able to conduct comparative analyses of emerging retail technologies and their impact on business performance.
UBAO606	Emerging Business Practices In India	CO1	:	Identify core concepts of marketing and the role of marketing in business and society.
		CO2	:	Able to develop Six sigma's and Business launching
		CO3	:	Students should able to elaborate Emerging Trends in Business.
UBAO607	Industrial Relations	CO1	:	The course helps the student understand and apply the concept of industrial relations and the system in which it

				operates.
		CO2	:	Students should able to outline the important causes & impact of industrial disputes
		CO3	:	Students should able to elaborate Industrial Dispute settlement procedures.
UBAO608	Rural Marketing	CO1		An ability to apply knowledge, skills and right attitude necessary to provide effective leadership in a global environment.
		CO2		An ability to develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy & Society, aligned with the national priorities.
		CO3		An ability to develop proactive thinking so as to perform effectively in the dynamic socio-economic and business ecosystem.

DEPARTMENT: COMMERCE

Course Code	Course Title	Course Outcome		
UCOM50/ UCCM50/ UIAM501	Company Law	CO1	:	Identify different kinds of companies
		CO2	:	Apply the knowledge of company law for preparing registration documents.
		CO3	:	Explain the ability to manage issue and transfer of shares.
UCOM508	Practical Auditing	CO1	:	Demonstrate an understanding of the objectives and importance of auditing.
		CO2	:	Describe and discuss audit planning.
		CO3	:	Verify and Value Assets and Liabilities of a Company.
UCOM509/ UCCM509 UIAM503	Income Tax Law & Practice I	CO1	:	Identify the head-wise taxable income
		CO2	:	Apply income tax provisions for tax planning.
		CO3	:	Acquire knowledge on canons of taxation.
UCOM512	Accounting Package- Theory	CO1	:	Explain the various kinds of stock groups in Tally
		CO2	:	Apply the knowledge in creating vouchers
		CO3	:	Examine the ability to prepare final accounts.
UCOR50/ UCCR50/	Accounting Package –	CO1	:	Explain the various kinds of stock groups in Tally

UIAR502	Lab	CO2	:	Apply the knowledge in creating vouchers
		CO3	:	Compute GST Liability and prepare GST Return in Tally
UCOP501/ UCCP501/ UIAP501/ UCOM51/ UCCM511/ UIAM511	Project/Principles and Practice of Insurance	CO1	:	Evaluate the growth of Insurance business in India
		CO2	:	Apply the knowledge to protect themselves from the business risk
		CO3	:	Examine the knowledge to protect them selves from the personal risk.
UCCM615	E-Entrepreneurship	CO1	:	Understand the concept of e-entrepreneurship
		CO2	:	Identify the various e-business sites and its features
		CO3	:	Establish e- business site.
UCOM619/ UCCM619/ UBAM610	Financial Management	CO1	:	Recall and summarize the various financial concepts relating to time value of money, cost of capital, capital structure, capital budgeting, working capital management and dividend decision.
		CO2	:	Choose a relevant accounting concept to prepare financial return.
		CO3	:	Analyze and carryout the various accounting treatments relating to Financial Management discipline.
UCOR618/ UCCR618/ UIAR603	Industry Interface Program III - GST Practical	CO1	:	Understand and relate the knowledge of GST rules in Tax planning.
		CO2	:	Develop working knowledge on GST and application of the same in the organizations.
		CO3	:	Analyze GST liability and File returns
UCOM616/ UCCM616/ UIAM604	Goods and Services Tax	CO1	:	Define and illustrate the concepts of GST Policy and relate the procedures.
		CO2	:	Apply the GST principles in Tax Planning.
		CO3	:	Compare the various types of GST and categorize the file returns on GST.
UCOM617/ UCCM617/ UIAM605	Service Marketing	CO1	:	Outline the concepts of service and classify the different types of service marketing.
		CO2	:	Choose the service marketing mix for different services.
		CO3	:	Classify the different financial services available in India.
UCCO605/ UCOO605/ UIAO607	E-Marketing	CO1	:	Apply e-Marketing techniques to promote sales and retain customers
		CO2	:	Analyze and design a competitive-CRM

		CO3	:	Develop strategies and innovation in-Marketing
UCCO606/ UCOO606/ UIAO608	Income Tax Law & Practice II	CO1	:	Able to apply advanced principles of income tax law to complex tax scenarios.
		CO2	:	Students will be able to compare and contrast different income tax systems and their application in various jurisdictions.
		CO3	:	Will be capable of evaluating tax compliance requirements and ethical considerations in tax practice.
UCCO607/ UCOO607/ UIAO609	Consumer Protection	CO1	:	Understanding of the procedure of redress of consumer complaints and the role of Different agencies establishing product and service standards.
		CO2	:	Comprehend the business firms' interface with consumers and the consumer related regulatory and business environment.
		CO3	:	Students will be able to compare and contrast consumer protection laws and regulations across different jurisdictions.

DEPARTMENT: MATHEMATICS

Course Code	Course Title	Course Outcome		
UMAM507	Modern Algebra	CO1	:	Recognize groups and its classifications.
		CO2	:	Classify the groups and normal subgroups
		CO3	:	Use theorems to solve problems in Permutation groups.
UMAM514	Real Analysis I	CO1	:	Recall real valued function, sequence.
		CO2	:	Recognize Convergent sequence and Divergence sequence, Bounded sequence, Monotone sequence and Cauchy sequence.
		CO3	:	Analyze the series of Real numbers.
UMAM515	Numerical Methods	CO1	:	Understand numerical methods and how they are used to obtain approximate solutions.
		CO2	:	Apply various interpolation methods.
		CO3	:	Work out numerical differentiation and integration.

COURSE OUTCOMES – 2020-2021

UMAO502	Number Theory	CO1	:	Recall and relate number theory and its theorems.
		CO2	:	Recognize the basic concepts of arithmetic functions.
		CO3	:	Express the concept and results of Lioville"s function.
UMAM616	Linear Algebra	CO1	:	Recall and define the elementary concepts related to vector spaces, dual spaces and its relevance in linear algebra.
		CO2	:	Develop the knowledge of Hermitian, unitary, and normal transformations to solve mathematical problems.
		CO3	:	Compare and Classify the matrix representations of linear transformations.
UMAM615	Real Analysis II	CO1	:	Relate and Summarize the definitions and properties of open sets, closed set and boundedness.
		CO2	:	Solve the mathematical problems using Riemann integrals.
		CO3	:	Categorize connectedness, boundedness, and total boundedness in different metric spaces.
UMAM617	Complex Analysis	CO1	:	Define the functions of complex variable, mappings and Illustrate the concept of simply and multiply connected domains.
		CO2	:	Solve the Maximum Modulus principle, continuity, integration, and differentiation of power series.
		CO3	:	Examine the Isolated Singular Points and Residue at Poles.
UMAM618	Operation research	CO1	:	Define and Classify the fundamental concepts in operations research, including linear programming, transportation and assignment problems, sequencing problems, game theory, queuing Theory, and PERT/CPM.
		CO2	:	Apply mathematical methods to solve real-world problems in operations research.
		CO3	:	Simplify the different strategies and techniques in queuing theory, sequencing, and game theory.
UMAO607	Mathematics in Space Science	CO1	:	Produce creative works that demonstrate innovation in concepts
		CO2	:	Describe, analyze and interpret the problem.

		CO3	:	Create original objects of art in a specific medium.
UMAO606	Mathematics for Construction Craft	CO1	:	Recall and Summarize the fundamental concepts in construction mathematics, including unit conversion, transposition of formulas, area and volume calculations.
		CO2	:	Build mathematical concepts to solve practical problems in construction.
		CO3	:	Survey the construction materials, costs, and structural elements.

DEPARTMENT: CHEMISTRY

Course Code	Course Title	Course Outcome		
UCHM508	Inorganic Chemistry – I	CO1	:	Understand the classification, preparation, properties and uses of binary and organometallic compounds
		CO2	:	Comprehend the theories, crystal defects and semi-conducting nature of metallic state substances.
		CO3	:	Acquires the basic concepts of nuclear chemistry, radioactivity and nuclear Transformations.
UCHM509	Organic Chemistry –I	CO1	:	Acquires the knowledge of preparation, properties and applications of alcohols, phenols, thiols and ethers.
		CO2	:	Understands the knowledge of reaction mechanisms of nitro and carbonyl compounds.
		CO3	:	Classifies and elucidates the structure, properties and uses of carbohydrates.
UCHM506	Physical Chemistry –I	CO1	:	To improve the ability of mathematical calculations involved in Physical Chemistry.
		CO2	:	To enable the students to understand the concepts of thermodynamics and apply it to more space physical and chemical system.
		CO3	:	To make the students know the concepts of Chemical Kinetics and to apply the concepts of Kinetics to different processes.

UCHR501	Gravimetric Analysis	CO1	:	summarize findings in writing in a clear and concise manner
		CO2	:	Analyze the techniques involved in volumetric chemical analysis with emphasis on solution
		CO3	:	engage in safe laboratory practices handling laboratory glassware, equipment, and chemical reagents
UCHR605	Physical Chemistry Practical	CO1	:	Define the practical knowledge about the chemical kinetics
		CO2	:	Understand the conductivity experiments
		CO3	:	Apply potentiometric titrations in identification of acids
UCHM611	Inorganic Chemistry – II	CO1	:	Understand the synthesis and structure of organometallic compounds
		CO2	:	Understand the classification, preparation, properties and uses of binary and organometallic compounds
		CO3	:	Comprehend the theories, crystal defects and semi-conducting nature of metallic state substances.
UCHM612	Organic Chemistry – II	CO1	:	Understands the knowledge of reaction mechanisms of nitro and carbonyl compounds.
		CO2	:	Acquires the knowledge of preparation, properties and applications of alcohols, phenols, thiols and ethers.
		CO3	:	Analyze the metal and poly nuclear carbonyl complex
UCHM609	Physical Chemistry – II	CO1	:	Understand the concepts of thermodynamics
		CO2	:	Explain and apply concepts of physical chemistry
		CO3	:	Apply it to more space physical and chemical system
UCHM613	Physical Chemistry-III	CO1	:	Define an expression for photo-physical processes and the concentrations of solution
		CO2	:	Relate the Raoult's law, Cottrell method and osmatic pressure.
		CO3	:	Point out and determine the solubility of highly soluble gases in ideal system
UCHO602	Polymer Chemistry	CO1	:	Define the polymers, die casting and calendaring process
		CO2	:	Understand the thermal degradation and the molecular mass of polymers,

				Mn and Mw
		CO3	:	Apply the processing techniques for compression molding and blow molding
UCHO603	Medicinal Chemistry	CO1	:	Naming the drugs and outline the medicinal chemistry
		CO2	:	Summarize the antibiotics, antipyretics, and analgesics properties
		CO3	:	Classify the analgesics morphine and action of drugs
UCHO604	Forensic Chemistry	CO1	:	Identify the contaminations of food, and detecting forgery in bank cheques
		CO2	:	Summarize the blood DNA finger printing for tissue identification
		CO3	:	Examine the drunken driving in the transportation and use of neutron activation analysis
UCHR605	Physical Chemistry Practical	CO1	:	Define the practical knowledge about the chemical kinetics
		CO2	:	Understand the conductivity experiments
		CO3	:	Develop the partition co-efficient of new compounds in a mixture of two immiscible solvents
UCHR606	Organic Analysis and Preparation	CO1	:	Understanding of the basic principles of qualitative organic analysis
		CO2	:	Classify the organic preparation
		CO3	:	Identify the Special element and functional group in organic compound
UCHO605	Dyes and Textile fiber	CO1	:	able to explain the chemical structures and properties of various dyes and textile fibers.
		CO2	:	able to apply various dyeing techniques and processes to achieve desired coloration and fastness properties on textile fibers.
		CO3	:	Students will be capable of evaluating the performance characteristics and sustainability of dyed textiles.

COURSE OUTCOMES – 2020-2021

DEPARTMENT: BIOCHEMISTRY

Course Code	Course Title	Course Outcome		
UBCM504	Enzymes & Intermediary Metabolism	CO1	:	Understand the difference between a chemical catalyst and biocatalyst.
		CO2	:	Acquire fundamental knowledge on enzymes and their importance in biological reactions.
		CO3	:	Exposed with the fact that perturbations in the carbohydrate, lipid, protein and nucleic Acid metabolism that lead to various disorders.
UBCM505	Human Physiology	CO1	:	Explain the components of blood, blood grouping & cardio vascular system.
		CO2	:	Illustrate the mechanism of digestion, absorption of macromolecules and explain urine formation.
		CO3	:	Describe the process of gaseous exchange in tissues and lungs, respiratory adaption to high altitude.
UBCM506	Basics of Bioinformatics	CO1	:	Explain the concepts of biology in computer science and mathematics using Software to extract relevant information from large database.
		CO2	:	Assess the interface between Computational and Biological Science.
		CO3	:	Apply the Bioinformatics tools in Research
UBCR501	Enzymology Practical	CO1	:	Identify the influence of enzyme structure on catalytic properties.
		CO2	:	Explain the factors influencing the enzyme activity.
		CO3	:	Analyze the action of enzymes as biocatalysts and in factors that Influence enzyme activity.
UBCM605	Introduction to Biotechnology	CO1	:	Understand and recall rDNA technologies, gene transfer mechanisms, Plant hormones and transgenic animals in tissue culture, and molecular biology techniques.
		CO2	:	Identify types of strains used in cloning vectors, various methods for gene transfer, transgenic plants and animals based on different types of techniques
		CO3	:	Analyze the modifying enzymes, gene

				transfer mechanism, plant hormone development, cell culture techniques and applications of biological techniques
UBCM606	Clinical Biochemistry	CO1	:	Understand the importance of clinical laboratory, metabolic complications of carbohydrate, amino acid, lipids and various diagnostic methods
		CO2	:	Identify the uses of clinical laboratory instruments, and complications arise during carbohydrate, lipid and amino acid metabolism
		CO3	:	Analyze various biological specimen glucose, lipid and amino acid metabolic disorders
UBCM607	Molecular Biology	CO1	:	Define genetic code and explain the mechanism of protein synthesis and Protein processing.
		CO2	:	Describe the principles of gene expression, mechanism of transcription and post translational modification.
		CO3	:	Illustrate and apply the concepts of DNA Replication & DNA repairs.
UBCR601	Clinical Biochemistry practical	CO1	:	Choose Commonly used Laboratory Apparatus, Equipment, and Identify Good Safe Laboratory Practice.
		CO2	:	Apply the Concentration of Normal and Abnormal Constituents of Blood using Suitable Colorimetric Method
		CO3	:	Analyze and Interpret Investigative Data.
UBCR602	Hematology & Urine analysis	CO1	:	Find & Interpret the RBC and WBC Count Using Suitable Method in Accordance to Normal Values.
		CO2	:	Identify the Amount of Hemoglobin, CV and ESR Present in the Given Blood Sample.
		CO3	:	Analyze the Normal and Abnormal Constituents of Urine.
UBCO607	Molecular Endocrinology	CO1	:	Understand the Human physiology related to Endocrinology –Mechanism of action of different hormones – Peptide hormones and steroids, Genetic control of hormonogenesis
		CO2	:	Identify, how Pituitary hormones are Synthesized, Secreted, Regulated and Provoke the Biological Effects with its Disorders

		CO3	:	Analyze the molecular genetics related to endocrine system
UBCO606	Pathobiology of Human Diseases and Disorders	CO1	:	Recall and understand the major causative factors of diseases and Disorders.
		CO2	:	Differentiate and summarize the commonly occurring diseases based on the pathological condition.
		CO3	:	Relate the abnormalities with normal physiologic functions of all body systems.
UIDM601	Nanotechnology in Medicine	CO1	:	Recall & Relate the importance of Nanotechnology in the field of medicine.
		CO2	:	Apply the Benefits of the Nanotechnology - Based Systems Compared to Traditional Treatments,
		CO3	:	Analyze the Advanced Ideas And Techniques Required in Emergent Area Of Nanotechnology.
UBCO604	Stem Cell Biology	CO1	:	Define the characterizes of a stem cell
		CO2	:	List and compare the different types of stem cells
		CO3	:	explain stem cell differentiation in vivo and in vitro

DEPARTMENT: COMPUTER SCIENCE

Course Code	Course Title	Course Outcome		
UCSM506	Middleware Technologies	CO1	:	Ability to study the set of services that a middleware system constitutes of.
		CO2	:	Understand how middleware facilitates the development of distributed applications in heterogeneous environments
		CO3	:	Design the basics of Web services that are the most oft-used middleware technique.
UCSM509	Database Systems	CO1	:	Understand DB concepts and structures and also query language
		CO2	:	Apply various normalization techniques
		CO3	:	Design and build a simple database
UCSM510	Computer Networks	CO1	:	Learn the concepts of computer network hardware and software operate
		CO2	:	Investigate the fundamental issues driving network design

		CO3	:	Apply the network technologies in various development
UCSM511	Software Engineering	CO1	:	Identify the phases in a software project
		CO2	:	Apply the requirements engineering and Analysis Modeling.
		CO3	:	Implement the software engineering to adopt to readily changing environments using the appropriate theory principles and processes
UCSR509	Middleware Technologies Practical	CO1	:	Implement the set of services that a middleware system constitutes of.
		CO2	:	Understand how middleware facilitates the development of distributed applications in Heterogeneous environments.
		CO3	:	Design the basics of Web services that is the most oft-used middleware technique.
UCSR511	Database Systems practical	CO1	:	Understand, appreciate and effectively the concepts of database technologies
		CO2	:	Design and implement a database schema for a given problem domain
		CO3	:	Implement PL/SQL including procedures, functions, cursors and packages
UCSM612	Cloud Computing	CO1	:	Understand the core concepts of Cloud Computing and its characteristics
		CO2	:	Apply various Services and Models in Cloud.
		CO3	:	Examine the vision of Cloud Security Risk from a global context.
UCSM610	Big data Tools	CO1	:	Understand Big Data and its analytics in the real world
		CO2	:	Solve Data Intensive Problems using Map Reduce Paradigm
		CO3	:	Explore tools and practices for working with big data
UCSO607/ UCSO608	Internet of Things	CO1	:	Understand the working of Internet of Things (IoT) system by integrating control units, sensors, and communication technologies using appropriate programming languages and tools.
		CO2	:	Make use of the potential security and privacy risks associated with IoT devices and implement appropriate measures to mitigate those risks.
		CO3	:	Examine the effectiveness of various machine-to-machine (M2M) interactions in different scenarios, and troubleshoot common M2M issues.

COURSE OUTCOMES – 2020-2021

UCSM613	Open Source Technology	CO1	:	Understand the basic tags of HTML and CSS
		CO2	:	Apply the user Interfaces to different devices and requirements
		CO3	:	Analyze different jQuery UI.
UCSO606	Network Security	CO1	:	Understand the fundamental concepts of security, including the need for security, security approaches, principles of security, and types of attacks.
		CO2	:	Apply conventional encryption techniques, including block cipher principles, the Data Encryption Standard (DES), and block cipher modes of operation.
		CO3	:	Examine network security applications, including authentication applications, electronic mail security, IP security, and web security
UCSR607	Open Source Technology practical	CO1	:	Develop an interactive and secured web application
		CO2	:	Evaluate the code to build user interface application
		CO3	:	Develop the web applications by various user interfaces
UCAO606	Mobile Computing	CO1	:	Explain the fundamental concepts of mobile computing, including mobile hardware, software, and networking.
		CO2	:	Compare and contrast various mobile operating systems like Android, iOS, and Windows Mobile.
		CO3	:	Implement synchronization and data sharing strategies for mobile applications.
UCSA509	Business Analytics and Intelligence.	CO1	:	Understand and critically apply the concepts and methods of business analytics
		CO2	:	Identify, model and solve decision problems is different areas
		CO3	:	Implement powering consumer applications and new opportunity for entrepreneurship for analytics
UCSR512	Business Analytics and Intelligence using SAS - Lab	CO1	:	Understand the concept of a SAS Enterprise Guide.
		CO2	:	Create the numerical and pictorial summaries of data for Distribution Analysis.

		CO3	:	Develop the various applications for statistical analysis of data.
UCSA507	Object Oriented Programming using Java	CO1	:	Understand the use of Packages and Interface in java.
		CO2	:	Able to develop and understand exception handling, multithreaded applications with Synchronization.
		CO3	:	Able to design GUI based applications and develop applets for web applications
UCSR508	Object Oriented Programming using Java - Lab	CO1	:	Understand the use of abstraction.
		CO2	:	Able to understand the use of Packages and Interface in java.
		CO3	:	Develop applets for web applications.

DEPARTMENT: COMPUTER APPLICATION

Course Code	Course Title	Course Outcome		
UCAM507	Operating System	CO1	:	Describe the important computer system resources and the role of operating system in Their management policies and algorithms.
		CO2	:	Understand the process management policies and scheduling of processes by CPU
		CO3	:	Evaluate the requirement for process synchronization and coordination handled by operating system
UCAM509	Software Engineering	CO1	:	Define various software application domains and remember different process model
		CO2	:	Explain needs for software specifications also they can classify different types of Software requirements and their gathering techniques.
		CO3	:	Convert the requirements model into the design model and demonstrate use of Software and user interface design principles.
UCAM505	Web Programming	CO1	:	Understand the Concepts of Tags & Scripts.

		CO2	:	Apply scripts in both Client and Server side.
		CO3	:	Develop web applications using front-end frameworks/libraries such as React, Angular, or Vue.js.
UCAM508	Open Source Technology	CO1	:	To provide a basic idea of open source technology and their software development process
		CO2	:	To understand the role and future of open source software
		CO3	:	Develop web page with dynamic changes
UCAR506	Open Source Technology - Practical	CO1	:	Develop an interactive and secured web application
		CO2	:	Reduce the code to build user interface application
		CO3	:	Ability to develop applications
UCAR505	Web Programming - Practical	CO1	:	Design and develop well-structured web pages using HTML.
		CO2	:	Manage repositories and branches effectively using platforms like GitHub or GitLab.
		CO3	:	Implement web accessibility features to ensure inclusivity for users with disabilities.
UCAM609	Data Mining	CO1	:	Describe the data mining process and its stages, including data preprocessing, modeling, evaluation, and deployment.
		CO2	:	Identify and differentiate various types of databases and their relevance to data mining.
		CO3	:	Compare data preprocessing techniques, such as cleaning, integration, transformation, reduction, and discretization, to improve data quality.
UCAM610	Computer Graphics	CO1	:	To implement various algorithms to scan, convert the basic geometrical primitives, Transformations, Area filling, clipping.
		CO2	:	To describe the importance of viewing and projections.
		CO3	:	To define the fundamentals of animation, virtual reality and its.
UCAM611	Basics of IOT	CO1	:	Interpret the vision of IOT from a global context.
		CO2	:	Determine the Market perspective of IOT.

		CO3	:	Compare and Contrast the use of Devices, Gateways and Data Management in IOT
UCAR602	Data Mining - Practical	CO1	:	Compare and describe the key attributes and characteristics of different domain datasets, such as student details, supermarket details, library details, employee details, and customer details.
		CO2	:	Examine data preprocessing techniques to clean, transform, and normalize the datasets using Weka Tool.
		CO3	:	Explain the Apriority algorithm to mine association rules from the datasets.
UCAO606	Fundamentals of Security	CO1	:	Understand the Cryptography and Network Security concepts and application.
		CO2	:	Acquire knowledge in various types of Encryption and Decryption mechanism
		CO3	:	Classify and evaluate computer and security threats and models
UCAO604	Cloud Computing	CO1	:	Understand the services of cloud computing
		CO2	:	Apply the architecture of compute and storage cloud, service and delivery models
		CO3	:	Evaluate the various ideas of cloud computing, paradigm, benefits, current and future challenges

COURSE OUTCOMES – 2020-2021

DEPARTMENT: PSYCHOLOGY

Course Code	Course Title	Course Outcome		
UPSM501	Abnormal Psychology	CO1	:	Define the process of assessing such behavior and the most commonly used system for classifying psychological disorders.
		CO2	:	Explain several different theoretical perspectives on psychological disorders.
		CO3	:	Identify the research methods used and research findings on various psychological disorders.
UPSM502	Educational Psychology	CO1	:	Explain the Historical Background, Knowledge, and Skills of Effective Teachers and the Research Methods in Educational Psychology.
		CO2	:	Outline the Knowledge of the Strategies for Effective Classroom Management.
		CO3	:	Classify the Different Exceptionalities of Learners.
UPSM503	Positive Psychology	CO1	:	Distinguish emotions and recognize positive aspects of themselves and others.
		CO2	:	Measure happiness and variables that are related to overall well-being.
		CO3	:	Create a simulation that embodies the concept of Positive Psychology in everyday life.
UPSM504	Organizational Psychology	CO1	:	Understand Organizational Theories to specific Organization Situations
		CO2	:	Applying skills to Collaborative teamwork, Time management, Self-motivation in their work place
		CO3	:	Evaluate theoretical knowledge for Solving problem, Making decisions, and Develop Organizational skills.
UPSO505	Consumer Behavior	CO1	:	Define the Consumer Motivation and Identify its Measurements
		CO2	:	Understand the Principal Factors that Influence Consumers as Individuals and Decision Makers with an Application to the Buying Decision Process.

		CO3	:	Apply and Demonstrate Theories to Real-World Marketing Situations by Profiling and Identifying Marketing Segments
UPSM603	Human Resource Development	CO1	:	Evaluate the perspective of Human Resource Development as discipline appreciating learning.
		CO2	:	Developing skills of a detailed plan needed and demonstrate the implementation of HRD program in the organization.
		CO3	:	Explain the role of learning in action as an individual, group and an organization in order to develop creative strategies to organizational problems.
UPSM601	Clinical Psychology	CO1	:	Understand various assessment techniques, and therapeutic interventions allowing them to diagnose and treat mental health disorders.
		CO2	:	Identify and teach the skills to become a professional in clinical psychology
		CO3	:	Distinguish between disorders and assess various conditions that arise in clinical practice.
UPSM602	Counselling Psychology	CO1	:	Summarize the foundational aspects of counseling.
		CO2	:	Utilize the micro-skills required to conduct a successful counseling session
		CO3	:	Simplify the mechanisms involved in group counseling.
UPSM604	Health Psychology	CO1	:	Recall and comprehend the meaning, background, and foundation of health psychology.
		CO2	:	Apply evidence-based strategies to analyze and manage stress
		CO3	:	Analyze the concepts of behavior and its implications for health promotion.

COURSE OUTCOMES – 2020-2021

DEPARTMENT: TAMIL

Course Code	Course Title	Course Outcome		
UTAM505	இதழியல்	CO1	:	இதழியலின் கொள்கை மற்றும் சமூகத்தில் அதன் பங்கு குறித்து புரிந்து கொள்வர்.
		CO2	:	நேர்காணல்களை நடத்துதல், ஆராய்ச்சி செய்தல் மற்றும் தகவலைச் சரிபார்த்தல் உள்ளிட்ட செய்தி சேகரிப்பில் திறன்களை வளர்த்துக் கொள்வர்
		CO3	:	ஒருதலைபட்சமின்மை மற்றும் பொது நலன் போன்ற சிக்கல்களைக் கருத்தில் கொண்டு, அறிக்கையிடலில் நெறிமுறையோடு முடிவெடுப்பர்.
UTAM506	சமய இலக்கியம்	CO1	:	தமிழ் சமய இலக்கியத்தின் வரலாற்றுச் சூழலையும் வளர்ச்சியையும் புரிந்து கொள்ளுங்கள்.
		CO2	:	தமிழ் சமய இலக்கியங்கள் உருவாக்கிய வரலாற்று மற்றும் கலாச்சார சூழல்களையும் அது அக்கால சமூக, அரசியல் மற்றும் சமய சூழலை எவ்வாறு பிரதிபலித்தது என்பதையும் பகுத்தறிவர்
		CO3	:	பக்தி ஒழுக்கம் மற்றும் தெய்வீக இயல்பு போன்ற தமிழ் சமய இலக்கியங்களில் உள்ள மைய மற்றும் தத்துவக் கருப்பொருள்களை ஆராய்வர்.
UTAM509	நம்பியகப்பொருள்	CO1	:	அகத்திணைக்கான இலக்கணக் கூறுகளை அறிந்துக் கொள்வர்.
		CO2	:	சங்க இலக்கிய அகநூல்களை இலக்கணத்தோடு பொருத்தி பார்த்து புரிந்துக் கொள்வர்.
		CO3	:	தமிழ் மொழியின் தொன்மையான இலக்கியங்களைப் பற்றிய புரிதலை இலக்கணம் வழி அறிந்துக் கொள்வர்.

UTAM510	ஊடகத்தமிழ்	CO1	:	ஊடகங்கள் திறன்மிக்க கருத்துப் பரிமாற்றத்தில் செயல்படும் முறையை அறிந்து கொள்வர்.
		CO2	:	சமூக ஊடாட்டத்தின் வாயிலாக பண்பாட்டைக் கட்டமைப்பதில் ஊடகங்களின் செயல்பாட்டைப் புரிந்து கொள்வர்.
		CO3	:	ஊடகங்களில் வெளிவரும் செய்திகளின் மெய்மைத் தன்மையை விமர்சன ரீதியில் மதிப்பிடுவர்.
UTAM603	இலக்கியத் திறனாய்வியல்	CO1	:	இலக்கியத்தினை திறனாய்வு செய்யும் நெறிமுறைகள் குறித்து அறிவர்.
		CO2	:	திறனாய்வுக் கோட்பாடுகளை இலக்கியங்களில் எவ்வாறு அணுகுவது என்ற புரிதலைப் பெறுவர்.
		CO3	:	இலக்கியங்களின் பொருண்மைகளை திறனாய்வியல் நோக்கில் பொருத்திப் பார்க்கும் திறன் பெறுவர்.
UTAM604	சொற்பொழிவுக்கலை	CO1	:	சொல்லாட்சித் தேர்வுகளை வடிவமைப்பதில் பார்வையாளர்களின் தேவையைப் புரிந்து கொள்ள முடியும்.
		CO2	:	சொற்பொழிவினை மேம்படுத்த குரல் தொனி, உடல்மொழி , காட்சிப்படுத்துதல் போன்றவற்றில் சிறந்து விளங்குவர்.
		CO3	:	அரசியல், சமூக இயக்கங்கள் மற்றும் ஊடகங்கள் உட்பட பொது உரையாடலில் சொற்பொழிவின் பங்கை ஆராய்வர்.
UTAM607	தண்டியலங்காரம்	CO1	:	இலக்கியங்களில் அணி பயின்று வரும் தனித்துவம் குறித்து அறிந்து கொள்வர்.
		CO2	:	இலக்கியங்களில் அணியின் வகைகள் குறித்து புரிந்து கொள்வர்.
		CO3	:	இலக்கணங்களில் இடம்பெற்றுள்ள

				உவமைகளை அணிவகைகளுடன் பொருத்திப் பார்க்கும் திறன் பெறுவர்.
UTAM609	சங்க இலக்கியம்	CO1	:	தமிழரின் சமயக் கோட்பாட்டை உலகு தழுவிய சிந்தனை தளத்தில் அறிந்து கொள்வர்.
		CO2	:	பக்தி இலக்கியம் முன்மொழிகின்ற சிந்தனைகளைப் பகுப்பாராயும் திறம் பெறுவர்.
		CO3	:	தமிழ் பக்தி இலக்கியங்களின் பன்முகத்தன்மையை இக்காலச்சூழலுக்கு ஏற்ப மதிப்பிடுவர்.
UTAR601	பயிற்சி பட்டறை III	CO1	:	மேடைப்பேச்சிற்கான வரைமுறைகள் குறித்து அறிந்து கொள்வர்
		CO2	:	பொது மன்றத்தில் கருத்தை வெளிப்படுத்தும் முறைகள் குறித்து புரிந்து கொள்வர்.
		CO3	:	பேச்சு, நடிப்பு ஆகியவற்றின் சிறப்பியல்புகளை வாழ்க்கையில் பொருத்திப் பார்க்கும் திறன் பெறுவர்.
UTAO601	நாட்டுப்புறவியல்	CO1	:	வாய்வழி மரபுகள், தொன்மங்கள் புனைவுகள், நாட்டுப்புறக் கதைகள், இசை நடனம், சடங்குகள் மற்றும் கலாச்சாரம் உட்பட நாட்டுப்புறவியலின் பல்வேறு வடிவங்களை அறிவர்
		CO2	:	நாட்டுப்புறக் கதைகள் உருவாக்கப்பட்டு கடத்தப்படும் கலாச்சார, சமூக வரலாற்று சூழல்களை ஆராய்வர்
		CO3	:	உலகளாவிய நாட்டுப்புறக் கதைகளில் கருப்பொருள்கள் மற்றும் தனித்துவமான கலாச்சார வெளிப்பாடுகளை அடையாளம் காண்பர்

COURSE OUTCOMES – 2019-2020

DEPARTMENT: ENGLISH

Course Code	Course Title	Course Outcome		
UENL307	General English III	CO1	:	Understand of the importance of language and its role in communication.
		CO2	:	Identify and understand various literary devices used in different genres.
		CO3	:	Explore different writing styles and genres.
UENL308	AdvancedEnglishIII	CO1	:	Identify the socio-cultural contexts that influenced playwrights from different eras.
		CO2	:	Enhance their communication skills through activities like dialogue writing and story writing.
		CO3	:	Develop and analyze a broader perspectives on the evolution of drama across different cultures.
UENM305	IndianWritinginEnglish	CO1	:	Describe and Understand how well the Indian culture is reflected in Literature.
		CO2	:	Apply the ideas encapsulated in Indian Aesthetics to Literary texts.
		CO3	:	Analyze Indian Literary texts written in English in terms of colonialism, post colonialism, regionalization and nationalism.
UENM306	AmericanLiterature	CO1	:	Describe the concept of cultural clashes, Hybridity and emigrant life style.
		CO2	:	Interpret and analyse the novels, short stories and other piece of writing from the American culture cultural values and ethics.
		CO3	:	Apply and learn to differentiate American Literature with various kinds of literature.
UENA303	HistoryofEnglishLiterature-I	CO1	:	Understand the growth and development of English literature.
		CO2	:	Analyse how the religious and political history of England influenced
		CO3	:	Remember the prominent writers and famous works in English literature.
UENL407	General English IV	CO1	:	Understand and analyze different genres of literature, including poetry, prose, short stories, and drama.
		CO2	:	Apply the basic elements of English grammar to improve their writing and communication skills.
		CO3	:	Develop a strong foundation in grammatical concepts for clear and effective language use.
UENL408	AdvancedEnglishIV	CO1	:	Identify and interpret the characteristics of different subgenres of fiction, including children's fiction, detective fiction, and adventure fiction.
		CO2	:	Apply grammatical concepts and writing skills to various forms of composition, such as reports, articles, and transformed sentences with corrected errors.

		CO3	:	Analyze the concept of fiction, its various forms, and its historical development.
UENM405	DiasporicLiterature	CO1	:	Explain the theoretical backgrounds of international migration, race, and ethnicity.
		CO2	:	Identify the sources of various diasporic literature, review them and apply the theories in research.
		CO3	:	Classify and compare global diaspora literature with that of Indian diaspora literature.
UENM407	LanguageandLinguistics	CO1	:	Understand language structures and functioning of the language.
		CO2	:	Classify ancient and traditional perspectives of language use in the society
		CO3	:	Analyse the Grammatical Theories of Westernco untries as well as India.
UENA403	HistoryofEnglish Literature -II	CO1	:	Recognize the progression of English literature from the Old English to the Modern English eras.
		CO2	:	Identify the historical occurrences that have shaped English literary history.
		CO3	:	strengthen your critical thinking skills by learning to analyze texts.
UENM513/UENP501	BasicsofTranslation/Project	CO1	:	Explain the growth and development of Translation and some basic concepts related to it.
		CO2	:	Discuss and define Translation Studies.
		CO3	:	Acquire knowledge on various theories and techniques of translation.
PENM309	RomanticandVictorianAge	CO1	:	Understand major poems, essays, plays and fictions of the period.
		CO2	:	Analyse poems from the Romantic and Victorian in terms of form, style and content.
		CO3	:	Incorporate cultural circumstances into an understanding of the texts.
PENM311	ResearchMethodology	CO1	:	Understand the methods and mechanics of Research Report Writing.
		CO2	:	Identify an appropriate research problem in their interesting domain.
PENM213/314	DiasporicStudies	CO1	:	Explain the theoretical backgrounds of international migration, race, and ethnicity.
		CO2	:	Identify the sources of literature on Indian diaspora, review them and apply to their research topic.
		CO3	:	Compare global diaspora literature with that of Indian diaspora literature.
PENM315	Women'sStudiesinEnglish	CO1	:	Understand women centric ideas, concepts and themes.
		CO2	:	Analyze the gender based concepts discussed in literary texts.
		CO3	:	Interpret the complex interrelationships between real situation and feministic concepts.

PENI301	Translation:TheoryandPractice	CO1	:	Appraise the roles of translators, authors, clients, and readers in the translation process;
		CO2	:	Select and apply the appropriate translation strategies in a professional context
		CO3	:	Examine ethical issues in the translation process.
PENM408	TwentiethCenturyLiterature	CO1	:	Understand the critical approaches of the writers to the literature.
		CO2	:	Analyze the texts written by 20th century British Writers.
		CO3	:	Discuss socio-economic & Socio-cultural condition during the period.
PENM411	Journalism	CO1	:	Demonstrate an elementary knowledge of the role and importance of communication at media platforms.
		CO2	:	Analyse the importance of media laws and ethical issues
		CO3	:	Comprehend the history and tradition associated with folk forms.
PENM412	CanadianLiterature	CO1	:	Identify representative authors and texts in Canadian literature from the Confederation period to the present day.
		CO2	:	Formulate sustained and logical arguments that build on textual evidence and manifest themselves in a variety of written forms
		CO3	:	Describe major genres and literary techniques that have influenced the development of Canadian literature
PENM312/ 413	LiteratureinTranslation	CO1	:	Appreciate the process of translation
		CO2	:	Begin translating from one language to another
		CO3	:	Know the politics of translation
PENM414	Thinking,CognitionandMetacognitionin English	CO1	:	Identify the key features of Indian English literature and its cultural context.
		CO2	:	Analyze literary texts and identify literary devices used by the authors.
		CO3	:	Develop a critical perspective on social and political issues presented in the literature.

DEPARTMENT: BUSINESS ADMINISTRATION

Course Code	Course Title	Course Outcome		
UBAM308	MarketingManagement	CO1	:	Understand different concept in marketing.
		CO2	:	Realize the significance of marketing mix decisions in capturing market share.
		CO3	:	Analyze the marketing strategies of companies for market segmentation & positioning.
UBAM310/ UCOM305/ UCCM305	CostAccounting	CO1	:	Understand the Concept of Services and intangible products

		CO2	:	Discuss the relevance of the services Industry to Industry
		CO3	:	Examine the characteristics of the services industry and the modus operandi
		CO4	:	Analyze the role and relevance of Quality in Services
		CO5	:	Visualize future changes in the Services Industry
UBAM311	BusinessCommunication	CO1	:	Develop their communication skill.
		CO2	:	Inculcate the basics skills in writing and reading
		CO3	:	Prepare agenda and minutes.
UBAM312	CreativityForInnovative Management	CO1	:	Understand the various aspects of creativity and innovation.
		CO2	:	Hands on experience in applying creativity in problem solving.
UBAM313	OrganizationalBehaviour	CO1	:	Identify the characteristics of successful teams in order to function effectively as a team members and leaders.
		CO2	:	Apply different motivational theories and methods to increase the productivity and job satisfaction of employees.
		CO3	:	Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.
		CO4	:	Appraise their ability to manage, lead and work with other people in an organizational setting.
		CO5	:	Evaluate ethical issues as related to organizational behavior.
UMAA301	BusinessStatistics	CO1	:	Classify partial differential equations and transform into canonical form
		CO2	:	Solve linear partial differential equations of both first and second order
		CO3	:	Apply partial derivative equation techniques to predict the behaviour of certain phenomena.
		CO4	:	Apply specific methodologies, techniques and resources to conduct research and produce innovative results in the area of specialisation.
		CO5	:	Extract information from partial derivative models in order to interpret reality.
UBAM405	Production&Materials Management	CO1	:	Understand the scope for integrating materials management function over the logistics and supply chain operations.
		CO2	:	Identify, study, compare, and evaluate alternatives, select and relate with a good supplier.
		CO3	:	Apply the various purchasing method and inventory controlling techniques into practice.
		CO4	:	Demonstrate the organization wide materials requirement to develop an overall plan (MRP).
		CO5	:	Analyzing the materials in storage, handling, packaging, shipping distributing and standardizing

UBAM406	Micro,SmallAndMedium Enterprises	CO1	:	Identity the new entrepreneurial opportunities for Employability.
		CO2	:	Understand the opportunities to Set-Up SSI/MSME Units and role of entrepreneurship.
		CO3	:	Analyze the firm's internal environment, competitive environment, and firm's suitability/eligibility to tap the benefits of supports or fund available under different government schemes and initiatives.
		CO4	:	Examine the required skills and competencies for starting new entrepreneurship.
		CO5	:	Evaluate role of government in promoting entrepreneurship
UBAM407	HumanResourceManagement	CO1	:	Understand the employment relationship, which is a shared responsibility between employers, management, human resources specialists, and employees.
		CO2	:	Identify the human resources needs of an organization or department.
		CO3	:	Apply a job analysis and produce a job description from the job analysis.
		CO4	:	Analyze the procedures and practices used for recruiting and selecting suitable employees
		CO5	:	Develop the knowledge, skills and concepts needed to resolve actual human resource management problems or issues

DEPARTMENT: COMMERECE

Course Code	Course Title	Course Outcome		
UCOM305/ UCCM305/ UBAM310	CostAccounting	CO1	:	Understand the Concept of Services and intangible products
		CO2	:	Discuss the relevance of the services Industry to Industry
		CO3	:	Examine the characteristics of the services industry and the modus operandi
		CO4	:	Analyze the role and relevance of Quality in Services
		CO5	:	Visualize future changes in the Services Industry
UCOM306/ UCCM306/ UBAM308	MarketingManagement	CO1	:	identify the scope and significance of Marketing In Domain Industry
		CO2	:	practice marketing communication skills

				relevant to the corporate world.
		CO3	:	Demonstrate an understanding of fundamental concepts of marketing
		CO4	:	Analyze global business opportunities and its implications on a firm's marketing strategy.
		CO5	:	Integrate various elements of marketing to develop a marketing plan.
UCOM307/ UBAM309	FinancialMarkets&Services	CO1	:	Describe the different components of a financial system and their role.
		CO2	:	Explain the recent developments in the Indian financial system
		CO3	:	Understand the role and function of the financial system in reference to the macro economy.
		CO4	:	Demonstrate an awareness of the current structure and regulation of the Indian financial services sector
		CO5	:	Evaluate and create strategies to promote financial products and services
UCOM308/ UCCM308	Accounting for Non-TradingConcerns	CO1	:	Prepare receipt and payment accountant
		CO2	:	Differentiate receipt & payment accountant and income expenditure account
		CO3	:	Explain advantage and limitations of receipts and payment account
		CO4	:	Evaluate sources of income for non trading concerns
		CO5	:	Acquire the knowledge accounting for charitable institutional
UCOM407	BankingLaw&Practice	CO1	:	To provide knowledge about commercial banks and its Services..
		CO2	:	To enable them to understand better customer relationship
		CO3	:	To create awareness about modern banking services like e-banking, m-banking and Internet banking
		CO4	:	To enable the them to understand money lending policies
		CO5	:	After completion of the course the students will have thorough knowledge on Banking Practices.
UCOM408/ UCCM408	CorporateAccounting	CO1	:	Explain the plan for Redemption of Preference shares
		CO2	:	Evaluate the Restructuring of capital structure of public company ltd

		CO3	:	Develop the procedure involved in Amalgamation of companies
		CO4	:	Illustrate the implication of unethical accounting practices on the society
		CO5	:	Construct the financial statements of company within the frame work of Ind AS
UCOM409/ UCCM409	Businesslaw	CO1	:	Understand the legal and fiscal structure of different forms of business organizations and their responsibilities as an employer.
		CO2	:	Apply the global business laws to current business environment
		CO3	:	Analyze the principle of international business and strategies adopted by firms to expand globally
		CO4	:	Identify the fundamental legal principles behind contractual agreements
		CO5	:	Explain the basic elements of forming enforceable contract and agreement
UCOM412/ UCCM412	SecurityAnalysis& PortfolioManagement	CO1	:	Compute risk and return of securities
		CO2	:	Apply the knowledge of fundamental analysis for making investment decisions
		CO3	:	Apply the knowledge of technical analysis for making investment decisions
		CO4	:	Explain trading and operational mechanism of stock exchanges
		CO5	:	Evaluate portfolio performance
PCOM304	ServiceMarketing	CO1	:	Identify the head-wise taxable income
		CO2	:	Apply income tax provisions for tax planning.
		CO3	:	Acquire knowledge on canons of taxation.
		CO4	:	Explain the head-wise deductions allowed.
		CO5	:	Examine the allowed and disallowed business expenses.
PCOM305	IncomeTax&InternationalT axation	CO1	:	Examine the nature of services, and distinguish between products and services
		CO2	:	Identify the major elements needed to improve the marketing of services
		CO3	:	Appraise the nature and development of a services marketing strategy.
		CO4	:	Develop an understanding of the roles of relationship marketing and customer service in adding value to the customer's perception of a services
		CO5	:	Explain the different types of service marketing
PCOM306	ContemporaryBusinessLegi	CO1	:	Identify factors influencing economic

	slations			development
		CO2	:	Apply the knowledge of FEMA in the Management foreign exchange
		CO3	:	Examine powers and duties of CCI
		CO4	:	Explain the importance of environment and consumer production
		CO5	:	Discuss various types of IPR

DEPARTMENT: PHYSICS

Course Code	Course Title	Course Outcome		
UPHM303/ UPHM402	Electricityand Magnetism	CO1	:	Understand basic laws & definition of Electricity and Magnetism
		CO2	:	Analyze inter-relationship between Electricity and Magnetism
		CO3	:	Apply the basic ideas to various concepts of Electricity and Magnetism
UPHM304/ UPHM509	MathematicalPhysics	CO1	:	Important mathematical knowledge for the description of physical phenomenon
		CO2	:	Enhance basic skills of learning and appreciating Physics through Mathematics
		CO3	:	Analyze the complex numbers and their graphical representation in analytic function to flow problems.
UCSA306	ComputationalPhysics with Python	CO1	:	Analyze Interpolation and curve fitting
		CO2	:	Create the thoughts about the Scientific Programming Languages
		CO3	:	Construct the CompositeTrapezoidal,andSimpson's1/3Rules.
UPHM406/ UPHM302	OpticsandLaser Physics	CO1	:	To understand the concepts of dispersion of light, interference, diffraction and polarization of light waves and their applications in day-to-day life
		CO2	:	To study the working principle of laser and to apply the knowledge to industry, engineering, medicine
		CO3	:	To study fibre optic communication and its applications in different fields
UPHM407	AtomicPhysics	CO1	:	Remember the fundamentals of atoms and its developments.
		CO2	:	Understand the concepts of photoelectric

				effect and its verification.
		CO3	:	Apply the photoelectric effect in the atomic models for transition of electrons in the energy levels.
		CO4	:	Evaluate the electric and magnetic effects in the atomic structures.
		CO5	:	Create the interaction of atoms with electromagnetic radiation.
UCHA401/ UCHA402/ UCHA403	ChemistryforPhysics	CO1	:	Define an expression for rate constant K for third order reaction
		CO2	:	Solve the numerical problems based on Rate constant
		CO3	:	Understand the term specific volume, molar volume and molar refraction
		CO4		Know the meaning of phase, component and degree of freedom
		CO5		Describe the expression Maxwell's relations
UCHA402/ UCHR403	Volumetricand OrganicAnalysis-I	CO1	:	Define to tabulate the record on label of Calibration and Use of Apparatus.
		CO2	:	Estimate the concepts of Carbonate and Hydroxide Present Together in the mixture
		CO3	:	Illustrate & Calculate Fe(II) and Oxalic Acid Using Standardized KMnO4 Solution.
		CO4		Estimation of EDTA by various methods.
		CO5		Develop to formulate investigate and Understand the Practical Knowledge of Titrimetric Analysis.
PPHM301	QuantumMechanicsII	CO1	:	Apply and Analyze the approximation methods for time-independent problems and WKB.
		CO2	:	Distinguish variational equation and its application to ground state of the hydrogen and Helium atom.
		CO3	:	Illustrate Perturbation theory and Interaction of an atom with the electromagnetic field.
		CO4	:	Explain the Relativistic Quantum Mechanics using Dirac equation, Dirac matrices and Klein Gordon Equation.
		CO5	:	Evaluate the second quantization of the Schrödinger wave field for bosons and fermions.
PPHM303	MicroprocessorandMicrocontroller	CO1	:	Learn importance of Microprocessors and Microprocessors architectures and its feature.
		CO2	:	Learn the 8085 Microprocessors basic programs with applications.

		CO3	:	Understand the Basic interfacing concepts.
		CO4	:	Develop interfacing to real world devices with applications.
		CO5	:	Learn the 8051 Microcontroller Architecture, programming and special functions registers.
PPHM305	MaterialScience	CO1	:	Learned about the Various Kinds of Materials and its Applications.
		CO2	:	Realized about the Properties and Application of Modern Engineering Materials.
		CO3	:	Create the thoughts about the Superconductivity.
				Examine the Polymer Insulating Materials and Ceramic Insulating Material
				Verify the Metals and Alloys in Biomaterials.
PIDM301	SustainableMaterialsAnd Technologies	CO1	:	Describe the concept of sustainable Materials, green chemistry and Nano materials.
		CO2	:	Illustrate the characterization studies of SEM, TEM XPS and EDX studies.
		CO3	:	Distinguish the concept of Biological and electronic application of nanomaterials
		CO4	:	Learn about FESEM and AFM characterization studies to improve the employability skill.
		CO5	:	Evaluate the concept of green solvents, catalysis and zeolites.
PPHM406/ PPHM304	Laserandnonlinearoptics	CO1	:	Describe about lasers, nonlinear optics, and the multiphonon process.
		CO2	:	Explain the terms Junction Diode, Semiconductor Laser, Wave Propagation, and Dispersion in simple terms.
		CO3	:	Examine the ideas of solid lasers, gas lasers, fibers, and harmonic production.
		CO4	:	Analyze the concepts of frequency generation, parametric amplification, and the Laser Induced Surface Damaged Threshold.
		CO5	:	Develop the employability skill to learn the terms of Fiber Optics, X-ray Diffraction and FTIR study.
PPHM402	NuclearandParticlePhysics	CO1	:	State nuclear size ,shape , bindingenergy.etc and also the characteristics of nuclear force in detail
		CO2	:	Evaluate the nuclear models and potentials associated.
		CO3	:	Illustrate the nuclear decay processes, alpha, beta and gamma decay.
		CO4	:	Explain the Nuclear reactions, Fission and

				Fusion and their characteristics.
		CO5	:	Distinguish the forces in nature and classification of particles and study in detail conservations laws and quark models.
PPHM403	SolidStatePhysics-II	CO1	:	State the semiconductors, dielectric, optical, Magnetic and superconducting Properties.
		CO2	:	Distinguish the Paramagnetic materials, ferromagnetic materials and ferromagnetic materials.
		CO3	:	Analyze and apply the concept of luminescence materials, Photoconductivity composites in day today life.
		CO4	:	Develop the employability skill to learn the concept of Fermi level, Charge carrier, piezo, pyro and ferroelectric crystals.
		CO5	:	Illustrate the refractive index, Polarizability and Mossotti equation.
PPHM405	CrystalgrowthandThinFilms	CO1	:	Learn the nucleation concepts and nucleation types
		CO2	:	Know the solution growth techniques and principles.
		CO3	:	Understand the types of crystal growth and principles
		CO4	:	Learn the preparation of deposition techniques.
		CO5	:	Students will able to understand the thin film process
PRMC301	Research Methodology	CO1	:	Determine the Importance of how research is done.
		CO2	:	Choose the Problem and Research Design.
		CO3	:	Correlate the Sampling Design And Data Collection for research.
		CO4	:	Evaluate the Report Writing, Research Ethics.
		CO5	:	Manage the Instrumentation for sample analysis.

COURSE OUTCOMES – 2019-2020

Course Code	Course Title	Course Outcome		
UBCM304	BiochemicalTechniques	CO1	:	Gain knowledge on various laboratory techniques.
		CO2	:	Apply the techniques in various biochemical analysis.
UBCR301	BiochemicalTechniques practicalI	CO1	:	Understand the principles involved in the study area.
		CO2	:	Attain technical competence in the specific discipline.
UBCM403	Immunology	CO1	:	Understand the immunological basis of immune response.
		CO2	:	Comprehend about the host defense against infection and over reaction of immune system.
UIDM401	Pharmaceuticalchemistry	CO1	:	Understand the ADMET properties of drugs
		CO2	:	Analyze the functional groups responsible for the action of drugs
		CO3	:	Acquire knowledge about drug metabolic pathways, adverse effect and therapeutic value of drugs
UBCR401	BiochemicalTechniques PracticalII	CO1	:	Apply the principles of volumetric and electrophoretic techniques in biochemical analysis.
		CO2	:	Develop technical competence.
PBCM301	EnzymologyandEnzyme Technology	CO1	:	Understand the properties and importance of enzymes and its action in biochemistry
		CO2	:	Interpret the role of enzymes in disease diagnosis and therapeutic measures.
PBCM303	Immunology	CO1	:	Understand the structure, functions and integration of immune system
		CO2	:	Obtain knowledge about the antigen-antibody interactions.
		CO3	:	Illustrate the engineered antibodies used for treating most of the human diseases
PBCM304	ResearchMethodologyin Biochemistry	CO1	:	Understand about basic tools and techniques involved in research
		CO2	:	Introduce the concept of statistical tools for data analysis in scientific research.
PBCR301	Enzymology&Clinical Diagnostics	CO1	:	Acquire knowledge on various biochemical tests involved in clinical diagnosis.
		CO2	:	Examine marker enzymes during pathological conditions
PBCI301	Plant Biochemistry&	CO1	:	Identify the Biochemical pathways in plants.
		CO2	:	Analyze the emerging problems in the

	Pharmaceuticalchemistry			development on innovative practices
		CO3	:	Stimulate individual creativity and work in multidisciplinary teams
PBCM401	Genetics&GeneticEngineering	CO1	:	Understand the concept of Mendelian genetics and applications of genetic engineering.
		CO2	:	Acquire knowledge about all basic techniques of gene cloning right from DNA in plantsand animals.
		CO3	:	Provide knowledge about intellectual property rights across the world
PBCM402	ClinicalBiochemistry	CO1	:	Acquire in-depth knowledge on diseases and disorders.
		CO2	:	Interpret the causes to identify the diseases at early stage
		CO3	:	Identify target oriented therapies.

DEPARTMENT: CHEMISTRY

Course Code	Course Title	Course Outcome		
PCHM306	OrganicChemistry-III	CO1	:	Explain the nomenclature of heterocyclic compound
		CO2	:	Predict and characteristics of functional groups using UV and IR spectroscopy.
		CO3	:	Apply the Mass spectroscopy to identify the structure from Fragmentation pattern, effect of isotopes .
		CO4	:	Differentiate nuclear magnetic resonance spectroscopy of 1H and 13C
		CO5	:	Determine the given molecular structure using NMR, IR, UV-Vis and MS spectra from a
PCHM307	InorganicChemistry-III	CO1	:	Remember the lanthanide and actinide series.
		CO2	:	Explain the characteristics of radioactive decays, knows the basics of measurement of radioactivity and has the knowledge of the main applications of nuclear chemistry
		CO3	:	Prepare various types of nuclear changes or processes including fission, fusion and decay reactions.
		CO4	:	Describe and explain catalytic processes using an organometallic compound as a catalyst

		CO5	:	Determine organometallic compounds are used as catalysts in organic synthesis
PCHM308	PhysicalChemistry-III	CO1	:	Recognize concentration and mechanism of catalysis
		CO2	:	Describe and understand the Colloidal system
		CO3	:	Apply the knowledge to adsorption isotherm
		CO4	:	Differentiate the Kinetics of reaction in solution and fast reaction
		CO5	:	Criticize and Understand and analyze the application corrosion.
PPHI301/PCHI301	SustainableMaterialsand Technologies	CO1	:	Remember the sustainable materials
		CO2	:	Explain processes and products that are safe and hazard free
		CO3	:	Apply knowledge of green chemistry in alignment with sustainability principles realizing benefits for society,the economy and the environment.
		CO4	:	Analyse mechanistic problems and develop new functional materials.
		CO5	:	Select new materials for various applications
PCHR401	PhysicalChemistryPractical	CO1	:	Define the practical knowledge about the chemical kinetics
		CO2	:	Understand the conductivity experiments
		CO3	:	Apply potentiometric titrations in identification of acids
		CO4	:	Analyze the experimental data
		CO5	:	Develop the partition co-efficient of new compounds in a mixture of two immiscible solvents
PCHM404	OrganicChemistry-IV	CO1	:	Remember the photochemical transformations in photochemistry
		CO2	:	explain type of pericyclic mechanism is operative in a reaction
		CO3	:	Carry out various types of rearrangement reactions and their mechanism.
		CO4	:	explain role of reagents in organic synthesis
		CO5	:	Evaluate and Create synthetic routes to complex organic molecules through cycloaddition reactions
PCHM408	InorganicChemistry-IV	CO1	:	Describe cluster, ring ,cages and chain of main group elements
		CO2	:	Acquire skill to interpret the spectra of EPR and Photoelectron Spectroscopy for inorganic compounds.
		CO3	:	Prepare various alkene and alkyne complex
		CO4	:	Analyze Cyclopentadienyl metalloccene-

				sandwich and half-sandwich complexes
		CO5	:	Determine the Organometallic reaction
PCHM409	PhysicalChemistry-IV	CO1	:	Recognize diatomic molecule
		CO2	:	Predict the samples using different analytical techniques like SEM, TEM, AFM, STM.
		CO3	:	Illustrate the polymerization and its types
		CO4	:	Analyse the photo and radiation Chemistry
		CO5	:	Evaluate the electrochemical processes.
PCHM410	ResearchMethodology	CO1	:	Identify and discuss the role and importance of research in the chemical sciences.
		CO2	:	Understand the literature review and data collection
		CO3	:	Analysis of data using Chemistry software
		CO4	:	Analyze the data and arrive at a valid conclusion
		CO5	:	Evaluate scientific writing in the form of research proposals, scientific articles or reviews, in a clear and precise language
PCHM411	Natural Products	CO1	:	Describe the structure of Natural products by spectroscopic methods
		CO2	:	Understand the Separation techniques involved in the separation of natural products
		CO3	:	Prepare the aromatic amino acids using biosynthetic approach
		CO4	:	Compare the biosynthesis of alkaloids
		CO5	:	Create traditional drugs from various plants
PCHP401	Project	CO1	:	Identify the research problems
		CO2	:	Plan the research work in cost effective manner
		CO3	:	Prepare the chemical compounds using greener technology
		CO4	:	Analysis of data using software
		CO5	:	Sketching the thesis effectively using minimum words
UCHR404/ UCHR405	SemimicroQualitativeInorganic Analysis	CO1	:	Describe the organic and inorganic salts
		CO2	:	Understand the basic concepts behind in the chemical compounds
		CO3	:	Apply and analyze the sample using various techniques
		CO4	:	Select the exact method for particular compounds
		CO5	:	Design new methods to analyze the chemical compounds

COURSE OUTCOMES – 2019-2020

DEPARTMENT: MATHEMATICS

Course Code	Course Title	Course Outcome		
UMAM306	DifferentialEquations	CO1	:	Understand linear, non- linear ordinary and partial differential equations.
		CO2	:	Classify the Differential Equations
		CO3	:	Formulate differential equations in geometrical and physical problems
UMAM307	IntroductiontoProbability Theory	CO1	:	Understand basic ideas and concepts of probability theory.
		CO2	:	Compute conditional probability and conditional expectations.
		CO3	:	Apply Markov chain for solving real life problems.
UMAM405	ApplicationsofTransforms	CO1	:	Acquire knowledge of Transformation techniques.
		CO2	:	Analyse various Transformations.
		CO3	:	Solve difference equations and differential equations using transforms.
UMAM406	Mechanics	CO1	:	Understand forces acting on a particle.
		CO2	:	Examine a mechanical system.
		CO3	:	Evaluate the trajectory of a projectile, Circular Motion.
UMAM404	Mathematicalmodeling	CO1	:	Classify mathematical models involving differential equations, difference equation, dynamics and graph theory.
		CO2	:	Analyze Mathematical Models for real life problems.
PMAM305	ComplexAnalysis	CO1	:	Lay the foundation for topics in Advanced Complex Analysis.
		CO2	:	Develop clear thinking and analyzing capacity for research.
		CO3	:	Introduce the fascinating world of complex variable theory which is markedly different
PMAM310	FluidDynamics	CO1	:	Understand incompressible and compressible fluid flows.
		CO2	:	Analyse fluid motion.
PMAM311	Topology	CO1	:	Understand topological spaces, continuous function, connectedness, countability and separation axioms.
		CO2	:	Distinguish Topological Spaces.

		CO3	:	Develop analytical thinking.
PMAM406 PMAM313	MathematicalStatistics	CO1	:	Understand axiomatic approach to probability theory to study some statistical characteristics, discrete and continuous functions and their properties.
		CO2	:	Understand sampling theory significance tests, estimation and testing of hypothesis.
PMAI312	NumberTheoryandCryptography	CO1	:	Understand the concepts of Number Theory and cryptography
		CO2	:	Apply the concepts of number theory in cryptography.
PMAM405	FunctionalAnalysis	CO1	:	Understand Banach and Hilbert Spaces.
		CO2	:	Understand Operator theory leading to the spectral theory of Operators on a Hilbert space.
PMAM309 PMAM408	Stochasticprocess	CO1	:	Understand the concepts of Stochastic process.
		CO2	:	Analyse and apply the stochastic models for real life probabilistic situations
PMAM403	DifferentialGeometry	CO1	:	Understand space curves and their intrinsic properties of a surface and geodesics further the non-intrinsic properties of surface and the differential geometry of surfaces are explored.
		CO2	:	Apply abstract algebra and analysis to geometrical problems and facts.
		CO3	:	Understand space curves and their intrinsic properties of a surface and geodesics further the non-intrinsic properties of surface and the differential geometry of surfaces are explored.

COURSE OUTCOMES – 2019-2020

DEPARTMENT: COMPUTER SCIENCE

DEPARTMENT: COMPUTER SCIENCE

Course Code	Course Title	Course Outcome		
UCSM305/ UCAM310	Java Programming	CO1	:	Understand the process of graphical user interface design using AWT.
		CO2	:	Illustrate the various techniques on creating and accessing packages.
		CO3	:	Demonstrate the behavior of basic programming like control structures, constructors, string handling and garbage collection.
		CO4	:	Explain the concept of class and objects with access control to represent real world entities.
		CO5	:	Develop interactive programs using applets and swings.
UCSM306	Microprocessor and its Applications	CO1	:	Understand the architecture and instruction set of the 8085 and 8086 microprocessors.
		CO2	:	Develop simple assembly language programs for these microprocessors.
		CO3	:	Analyze and troubleshoot microprocessor-based systems.
UCSR308/ UCAR304	Java Programming – Practical	CO1	:	Identify classes, objects, members of a class and relationships among them needed for a specific problems.
		CO2	:	Understand the basics of Java programming, multi-threaded programs and Exception handling.
		CO3	:	Analyze and use Java in a variety of applications.
		CO4	:	Demonstrate the concepts of polymorphism and inheritance
		CO5	:	Develop a software application using the Java programming language.
UCSM408	Graphics & Multimedia	CO1	:	Apply fundamental graphics concepts including points, lines, circles, and ellipses.
		CO2	:	Explain core multimedia concepts including text, image, audio, and video.
		CO3	:	Analyze and manipulate various multimedia elements like text formatting, image editing, and audio processing.
UCSM409/ UCSM609	Operating System	CO1	:	Recall & Relate the concepts, structure and design of operating systems
		CO2	:	Discuss the contrast and compare differing structures for operating systems

		CO3	:	Examine knowledge about Operating System, Memory Management and scheduling concepts.
		CO4	:	Investigate the features of Unix Operating System to implement, Memory Management and scheduling concepts
		CO5	:	Compare the performance of various CPU Scheduling Algorithms & IPC, Process Management
PCSM311	Cloud Computing	CO1	:	Explain the fundamental concepts of cloud computing, including its benefits, limitations, and security considerations.
		CO2	:	Analyze the business case for adopting cloud computing solutions and identify potential applications in various industries.
		CO3	:	Describe different cloud service models (SaaS, PaaS, IaaS) and access methods (web applications, APIs, etc.).
		CO4	:	Evaluate the use of cloud computing in real-world scenarios, considering factors like driving forces, company offerings, and application management.
		CO5	:	Develop best practices for cloud computing implementation, including migration strategies and cloud service evaluation methods.
UCSM409/ UCSM609	Operating System	CO1	:	Recall & Relate the concepts, structure and design of operating systems
		CO2	:	Discuss the contrast and compare differing structures for operating systems
		CO3	:	Examine knowledge about Operating System, Memory Management and scheduling concepts.
		CO4	:	Investigate the features of Unix Operating System to implement, Memory Management and scheduling concepts
		CO5	:	Compare the performance of various CPU Scheduling Algorithms & IPC, Process Management
PCSM315	Big Data Analytics	CO1	:	Define big data concepts, its challenges, and the technologies involved in processing it.
		CO2	:	Explain the architecture and core components of the Hadoop ecosystem, including HDFS (Hadoop Distributed File System).
		CO3	:	Understand and work with various NoSQL databases used for big data storage.
		CO4	:	Analyze use cases for big data applications in different industries.
PCSM314	Cyber Security	CO1	:	Analyze and evaluate the cyber security needs of an organization.
		CO2	:	Determine software vulnerabilities and security solutions to reduce the risk of exploitation.
		CO3	:	Resolve security issues in networks and computer systems to secure an IT infrastructure.

		CO4	:	Develop policies and procedures to manage enterprise security risks.
		CO5	:	Test and evaluate secure software.
PCSM313	Research Methodology	CO1	:	Explain the fundamental concepts of research methodology, including the purpose, types, and approaches to research.
		CO2	:	Apply basic programming concepts in Python, including data types, operators, control flow, functions, and data structures.
		CO3	:	rite clear, concise, and well-structured research reports using appropriate scientific writing techniques, citation styles, and formatting.
PCSI301	Fuzzy Set and Systems	CO1	:	Explain the core concepts of fuzzy set theory and fuzzy logic, including the distinction between uncertainty and imprecision compared to classical set theory and probability.
		CO2	:	Design and implement fuzzy systems for various applications, including fuzzification, defuzzification, and rule-based inference.
		CO3	:	Develop fuzzy rules and perform fuzzy reasoning using techniques like fuzzy implication and composition.
		CO4	:	Apply fuzzy logic principles to classification problems using fuzzy equivalence relations and clustering techniques.
		CO5	:	Construct fuzzy membership functions to represent imprecise or subjective concepts.
PCSR306	Big Data Analytics - Practical	CO1	:	Apply Apache Pig for data analysis tasks, including data loading, filtering, transformation, and aggregation.
		CO2	:	Utilize HiveQL, a SQL-like language, for data querying and analysis within the Hadoop ecosystem.
		CO3	:	Develop Pig scripts to perform common data manipulation operations like joins, splits, unions, and aggregations.
PCSM404	Digital Image Processing	CO1	:	Explain the fundamental concepts of digital image processing systems, including image acquisition, visual perception, and color models.
		CO2	:	Apply various image enhancement techniques for improving image quality, such as histogram equalization, noise reduction, and filtering.
		CO3	:	Analyze image degradation models and implement image restoration techniques, including inverse filtering and Wiener filtering.
		CO4	:	Apply image compression techniques like Huffman coding, run-length encoding, and transform coding (JPEG) to reduce image file size for storage and transmission.
		CO5	:	Identify segment images and separating objects of interest from the background using edge

				detection, region-based segmentation, and morphological watershed methods.
PCSM406	Artificial Intelligence and Robotics	CO1	:	Understand the principles of planning in AI, including problem formulation, planning algorithms (hierarchical decomposition), and handling resource constraints and uncertainty.
		CO2	:	Apply knowledge representation techniques like propositional logic, first-order logic, and semantic networks to model real-world problems.
		CO3	:	Analyze problems suitable for AI solutions and develop appropriate AI algorithms using various search methods (breadth-first, depth-first, A*, etc.).
		CO4	:	Explain the core concepts of Artificial Intelligence (AI), including intelligent agents, search strategies, and problem-solving techniques.
		CO5	:	Ability to grasp the fundamental concepts of robotics, including robot tasks, components, configurations, and motion planning.

DEPARTMENT: COMPUTER APPLICATION

Course Code	Course Title	Course Outcome		
UCAM310 / UCSM305	Java Programming	CO1	:	Understand the process of graphical user interface design using AWT.
		CO2	:	Illustrate the various techniques on creating and accessing packages.
		CO3	:	Demonstrate the behavior of basic programming like control structures, constructors, string handling and garbage collection.
		CO4	:	Explain the concept of class and objects with access control to represent real world entities.
		CO5	:	Develop interactive programs using applets and swings.
UCAM308	MIS and ERP	CO1	:	Define the concept of a transaction and explain the decision-making process within organizations.
		CO2	:	Analyze the potential risks and benefits of implementing MIS and ERP systems in enterprises.
		CO3	:	Describe different data storage and retrieval methods used in information systems, including file organizations and database management.
UCAM311	Data Communication Networks	CO1	:	Select appropriate data communications solutions to business problems and needs.
		CO2	:	Illustrate the TCP/IP and OSI Reference model

				and identify their differences in implementation within and across enterprises.
		CO3	:	Analyze the contents in a given data link layer packet, based on the layer concept.
		CO4	:	Evaluate networks and services for homes, data centres.
		CO5	:	Describe the various related technical, administrative and social aspects of specific computer network protocols .
UCAR304/ UCSR308	Java Programming - Practical	CO1	:	Identify classes, objects, members of a class and relationships among them needed for a specific problems.
		CO2	:	Understand the basics of Java programming, multi-threaded programs and Exception handling.
		CO3	:	Analyze and use Java in a variety of applications.
		CO4	:	Demonstrate the concepts of polymorphism and inheritance
		CO5	:	Develop a software application using the Java programming language.
UCOA303	Financial Accounting	CO1	:	Prepare Trading, Profit & Loss Account and Balance Sheet.
		CO2	:	Compute Branch Accounts, Departmental Accounts and Partnership Accounts
		CO3	:	Apply the knowledge of accounting concepts and conversion in preparation of final accounts.
		CO4	:	Explain the differences between single and Double entry system
		CO5	:	Examine hire purchase system
UCAM404	Database Management System	CO1	:	Explain the fundamental concepts of database systems, including data models, database users, and the advantages of using a Database Management System (DBMS).
		CO2	:	Design relational databases using normalization techniques, such as first, second, and third normal forms, to minimize data redundancy and improve data integrity.
		CO3	:	Create and manipulate database structures using Structured Query Language (SQL) statements for data definition (DDL), data manipulation (DML), and data querying.
UCAM403	Object Oriented Analysis and Design	CO1	:	Understand and use an object-oriented method for analysis and design
		CO2	:	Design and document the requirements through use case driven approach.
		CO3	:	Analyse the basic object-oriented design patterns to structure solutions to problems
		CO4	:	Create UML based software design into pattern based design using design patterns
		CO5	:	Develop software applications using object oriented concepts.

UCAM406	Python Programming	CO1	:	Define and understand features of python Modules and functions
		CO2	:	Apply and differentiate control statements and functions
		CO3	:	Analyse array, Strings concepts in problem Solving
		CO4	:	Develop operations of lists and Tuples
		CO5	:	Execute files and Exceptions handling programs
UCAR402	Database Management System - Practical	CO1	:	Demonstrate practical proficiency in writing various SQL queries, including those involving views, indexes, and triggers.
		CO2	:	Design and implement database structures for different applications using Oracle's data definition language (DDL).
		CO3	:	Develop PL/SQL procedures and functions to access and manipulate data in the database.
		CO4	:	Create and utilize indexes to improve database query performance.
UCAR404	Python Programming-Practical	CO1	:	Utilize sorting algorithms like selection sort, insertion sort, and merge sort to order data in Python.
		CO2	:	Design and implement Python programs using conditional statements (if-else), loops (for, while), and functions.
		CO3	:	Develop Python programs to perform mathematical calculations, including finding GCD, square root, and prime numbers.

DEPARTMENT: PSYCHOLOGY

Course Code	Course Title	Course Outcome		
UPSR301	ExperimentalPsychologyI	CO1	:	Recall the purpose and function of different psychological instruments used in experiments.
		CO2	:	Explain the significance of experimental techniques in studying sensation, perception, learning, memory, and intelligence.
		CO3	:	Conduct experiments using appropriate techniques for different psychological domains.
		CO4	:	Examine experimental results to identify patterns and relationships in psychological data.
		CO5	:	Assess the reliability and validity of experimental results obtained using various techniques.
UPSM301	PsychologicalStatistics	CO1	:	Identify descriptive and inferential statistics

				and their respective uses.
		CO2	:	Explain the nature, scope, and limitations of statistics in psychology.
		CO3	:	Apply appropriate statistical tests to analyze psychological data and draw conclusions.
		CO4	:	Synthesize findings from statistical analyses to formulate conclusions and implications for psychological theory and practice.
		CO5	:	Judge the reliability and validity of statistical findings based on the data collected.
UPSM302	TheoriesofPersonality	CO1	:	Memorize the meaning and definition of personality.
		CO2	:	Interpret the key concepts and principles underlying different theories of personality.
		CO3	:	Utilize theories of personality to understand and explain diverse aspects of human behavior.
		CO4	:	Examine the assumptions and methodologies underlying different theories of personality.
		CO5	:	Formulate informed opinions and recommendations regarding the utility and limitations of specific personality theories based on critical evaluation.
UPSR401	ExperimentalPsychologyII	CO1	:	Recall the objectives and purposes of psychological testing in experimental psychology.
		CO2	:	Explain the significance of psychological testing in experimental psychology and its applications in assessing human behavior.
		CO3	:	Apply knowledge of experimental design principles to develop experiments that accurately assess targeted psychological constructs.
		CO4	:	Analyze the data collected from psychological tests to identify patterns, trends, and correlations.
		CO5	:	Evaluate the reliability and validity of experimental results obtained from psychological testing data.
UPSM401	PhysiologicalPsychology	CO1	:	Recognize the role of biological factors in shaping behavior and emotion, including the communication and expression of emotions.
		CO2	:	Interpret the neural basis of learning, memory, and emotion, including synaptic plasticity and the role of neurotransmitters.
		CO3	:	Discuss the physiological mechanisms of sleep, biological circadian rhythms, and their implications for behavior and health.
		CO4	:	Illustrate the anatomical and functional

				aspects of sensory systems, including vision, audition, somatosensation, gustation, and olfaction.
		CO5	:	Explain the fundamentals of biopsychology and its significance in understanding human behavior.
UPSM402	ResearchMethodology	CO1	:	Describe the importance of each stage of the research process and its contribution to the overall research endeavor.
		CO2	:	Understand the ethical considerations involved in conducting psychological research and reporting findings.
		CO3	:	Discuss the stages of research, including problem selection, research design, sampling, data collection, hypothesis testing, interpretation, and report writing.
		CO4	:	Identify and differentiate between various research methods and their applications.
		CO5	:	Explain the fundamental concepts and principles of research methodology in psychology.

COURSE OUTCOMES – 2019-2020

DEPARTMENT: TAMIL

Course Code	Course Title	Course Outcome		
UTAL 305	பொதுத்தமிழ்	CO1	:	தமிழிலக்கியங்கள் குறித்து புரிந்து கொள்வர்
		CO2	:	தமிழிலக்கியத்தின் வகைமைகளை பகுத்தாராய்வர்.
		CO3	:	தமிழிலக்கியத்தின் நெறிகளை அறிந்து வாழ்வில் பின்பற்றும் திறன் பெறுவர்.
UTAL 306	சிறப்புத்தமிழ்	CO1	:	தமிழிலக்கியங்கள் குறித்து புரிந்து கொள்வர்
		CO2	:	தமிழிலக்கியத்தின் வகைமைகளை பகுத்தாராய்வர்.
		CO3	:	தமிழிலக்கியத்தின் நெறிகளை அறிந்து வாழ்வில் பின்பற்றும் திறன் பெறுவர்.
UTAM303	யாப்பருங்கலக்காரிகை	CO1	:	யாப்பிலக்கண நெறிகளை புரிந்து கொள்வர்.
		CO2	:	யாப்பின் படி செய்யுள் உருவாக்கும் முறைகள் குறித்து பகுத்தாராய்வர்.
		CO3	:	பாப்பிலக்கணங்களைகற்றுத்தேர்ந்து செய்யுள்படைக்கும் திறன் பெறுவர்.
UTAM304	காப்பியங்கள்	CO1	:	காப்பியங்களின் தோற்றம் வளர்ச்சி குறித்து அறிந்து கொள்வர்.
		CO2	:	காப்பியங்களின் வகைமைகள் குறித்து பகுத்தாராயும் திறன் பெறுவர்.
		CO3	:	காப்பியங்களில் இடம்பெற்றுள்ள வாழ்வியல் விழுமியங்களை வாழ்வில் கடைபிடிக்கும் திறன் பெறுவர்.
UTAM306	மொழியியல்	CO1	:	மொழியியலின் மாண்புகள் குறித்து புரிந்து கொள்வர்.

		CO2	:	மொழியியல் சமூகத்தில் ஏற்படுத்தியுள்ள தாக்கம் குறித்து பகுத்தாராய்வர்.
		CO3		மொழியியலின் கூறுகளை சமூகத்தில் பயன்படுத்தும் திறன் பெறுவர்.
UTAR301	பயிற்சி பட்டறை 2	CO1	:	படைப்பிலக்கிய நெறிகளை புரிந்து கொள்வர்.
		CO2	:	படைப்பு, பேச்சு, நடைப்பு ஆகியவற்றினை பகுத்தாராய்வர்.
		CO3	:	பயிற்சி பெற்று படைபாளராக, பேச்சாளராக, செய்தியாளராக உருவாகும் திறன் பெறுவர்.
UTAL405	பொதுத்தமிழ்	CO1	:	தமிழிலக்கியங்கள் குறித்து புரிந்து கொள்வர்
		CO2	:	தமிழிலக்கியத்தின் வகைமைகளை பகுத்தாராய்வர்.
		CO3		தமிழிலக்கியத்தின் நெறிகளை அறிந்து வாழ்வில் பின்பற்றும் திறன் பெறுவர்.
UTAL406	சிறப்புத்தமிழ்	CO1	:	தமிழிலக்கியங்கள் குறித்து புரிந்து கொள்வர்
		CO2	:	தமிழிலக்கியத்தின் வகைமைகளை பகுத்தாராய்வர்.
		CO3	:	தமிழிலக்கியத்தின் நெறிகளை அறிந்து வாழ்வில் பின்பற்றும் திறன் பெறுவர்.
UTAM401	புறப்பொருள் வெண்பாமாலை	CO1	:	புறப்பொருள் நெறிகளை புரிந்து கொள்வர்.
		CO2	:	புறப்பொருளின் உட்கூறுகளை பகுத்தாராயும் திறன் பெறுவர்.
		CO3		புறப்பொருள் குறித்த செய்யுள்களை அறிந்து திறனாயும் திறன் பெறுவர்
UTAM405	அறஇலக்கியங்கள்	CO1	:	அற இலக்கியங்களின் நெறிகளை புரிந்து கொள்வர்.

		CO2	:	அற இலக்கியங்கள் உரைத்திடும் சிந்தனைகள் குறித்து பகுத்தாராய்வர்.
		CO3		அற இலக்கியங்களை கற்றுத்தேர்ந்து வாழ்வில் கடைபிடிக்கும் திறன் பெறுவர்.
UTAM404	தமிழ் இலக்கணநூல்கள்	CO1	:	அடிப்படை இலக்கண நூல்கள குறிந்து புரிந்து கொள்ளும் திறன் பெறுவர்.
		CO2	:	இலக்கண நூல்களின் வழி இலக்கியங்களை பகுத்தராய்வர்.
		CO3		இலக்கணங்களை நடைமுறை வாழ்வில் பின்பற்றும் திறன் பெறுவர்.
UTAM508	தகவல் தொடர்பியல்	CO1	:	தகவல் தொடர்பியலின் தோற்றம் வளர்ச்சி நிலைகளை புரிந்து கொள்வர்
		CO2	:	தகவல் தொடர்பியலின் வகைமைகளை பகுத்தாராயும் திறன் பெறுவர்
		CO3		தகவல் தொடர்பினை ஊடகங்களைப் பயன்படுத்தி அனுப்பும் திறன் பெறுவர்.
PTAM301	தொல்காப்பியம் – பொருள்	CO1	:	தொல்காப்பிய பொருளதிகாரத்தின் நெறிகளை புரிந்து கொள்வர்.
		CO2	:	வாழ்வில் தொல்காப்பியம் உரைத்த பொருள் குறித்து பகுத்தாராய்வர்.
		CO3	:	தொல்காப்பியத்தினை கற்றுத்தேர்ந்து கற்றுத்தேர்ந்து வாழ்வில் பொருத்திப்பார்க்கும் திறன் பெறுவர்.
PTAM305	ஆராய்ச்சி நெறிமுறைகள்	CO1	:	ஆராய்ச்சி குறித்த புரிதலை பெறுவர்.
		CO2	:	ஆராய்ச்சியின் வகைமைகள் குறித்து பகுத்தாராயும் திறன் பெறுவர்
		CO3	:	ஆராய்ச்சி நெறிமுறைகளை அறிந்து ஆராய்ச்சி மேம்பாடு மற்றும் ஆய்வேடுகளை உருவாக்கும் திறன் பெறுவர்.
PTAI306	உரையாசிரியர்கள்	CO1	:	உரையாசிரியர்களின் தனித்தன்மைகள்

				குறித்து புரிந்து கொள்வர்.
		CO2	:	உரைகளின் வகைகள் குறித்து பகுத்தாராயும் திறன் பெறுவர்.
		CO3	:	உடையாசிரியர்கள் மற்றும் உரைகளின் மாண்புகளை அறிந்து இலக்கியங்களை கற்கும் திறன் பெறுவர்.
PTAM310	சிற்றிலக்கியங்கள்	CO1	:	சிற்றிலக்கியத்தின் தோற்றம் வளர்ச்சி நிலைகளை புரிந்து கொள்வர்.
		CO2	:	சிற்றிலக்கியத்தின் வகைமைகள் குறித்து பகுத்தாராய்வர்.
		CO3	:	சிற்றிலக்கியங்களை நன்கு கற்றுத்தேர்ந்து அதில் குறிப்பிடப்பட்டுள்ளவாழ்வியல் சிந்தனைகளை வாழ்வில் பொருத்திப்பார்க்கும் திறன் பெறுவர்.
PTAI301	மொழிப்பெயர்ப்பியல்	CO1	:	மொழிப்பெயர்பியலின் வளர்ச்சி நிலைகளை புரிந்து கொள்வர்
		CO2	:	மொழிப்பெயர்பியலின் வகைகள குறித்து பகுத்தாரயும் திறன் பெறுவர்
		CO3	:	மொழிப்பெயர்பின் பயன்களை உணர்ந்து, மொழிப்பெயர்க்கும் வழி முறைகளை அறிந்து மொழிப்பெயர்பாளராகும் திறன் பெறுவர்.
PTAM401	தொல்காப்பியம் – பொருள் 2	CO1	:	தொல்காப்பிய பொருளதிகாரத்தின் நெறிகளை புரிந்து கொள்வர்.
		CO2	:	வாழ்வில் தொல்காப்பியம் உரைத்த பொருள் குறித்து பகுத்தாராய்வர்.
		CO3	:	தொல்காப்பியத்தினை கற்றுத்தேர்ந்து கற்றுத்தேர்ந்து வாழ்வில் பொருத்திப்பார்க்கும் திறன் பெறுவர்.
PTAM404	ஊடகவியல்	CO1	:	ஊடகங்களின் தோற்றம் வளர்ச்சி நிலைகளை புரிந்து கொள்வர்.

		CO2	:	ஊடகங்களின் பயன்பாடுகள் குறித்து பகுத்தாராய்ந்து அறிந்து கொள்வர்.
		CO3	:	ஊடகங்களை பயன்படுத்தும் திறன் பெறுவர்.
PTAM406	தமிழ்க்கணினி பயன்பாட்டியல்	CO1	:	கணினியின் தோற்றம் வளர்ச்சி நிலைகளை புரிந்து கொள்வர்.
		CO2	:	கணினியின் பாகங்கள் செயல்கள் குறித்து பகுத்தாரய்ந்து அறிவர்
		CO3	:	கணினியின் பயன்பாடுகள அறிந்து தமிழ்மொழியில் கணினியினை பயன்படுத்தும் திறன் பெறுவர்
PTAM409	சங்க இலக்கியம்	CO1	:	சங்க இலக்கியத்தின் மாண்புகளை புரிந்து கொள்வர்.
		CO2	:	சங்க இலக்கியத்தின் பிரிவுகளை பகுத்தாராய்வர்
		CO3	:	சங்க கால வாழ்வியல் நெறிகளை அறிந்து சமூகத்தில் பின்பற்றும் திறன் பெறுவர்.

COURSE OUTCOMES – 2018-2019

DEPARTMENT: ENGLISH

Course Code	Course Title	Course Outcome		
UENL107	General English I	CO1	:	Bolster up their knowledge in Literary Skills.
		CO2	:	Advance skills to read and write.
		CO3	:	Enhance their grammatical enlightenment in the Language.
UENGL108	Advanced English I	CO1	:	Acquire creative skills through Poetry
		CO2	:	Familiarize with the Rhyme and Rhythm of Poetry.
		CO3	:	Recognize the values of poetry through the different kinds of poems
UENM105	Foundation Course to English	CO1	:	Read and write without errors.
		CO2	:	Understand and practice the basic knowledge of English Knowledge
		CO3	:	Conceive the grammatical rudiments of the language
UENM108	Poetry	CO1	:	Understand the forms and Styles of poetry.
		CO2	:	Explore the verse language and its devices
		CO3	:	Recognize the different types of poems
UENM109	Prose	CO1	:	Understand the types and characteristic features of Essays.
		CO2	:	Examine the Narrative Skills of different authors.
		CO3	:	Analyze the intuitive Prose features of world renowned authors.
UENA103	Literary Terms and Forms	CO1	:	Collect and grasp the different Genres of English Literature.
		CO2	:	Use the genres in their creative writing.
		CO3	:	Attain the Genre awareness through book learning.
UENL207	General English II	CO1	:	Refine their understanding of Prose, Poetry and Short Story.

		CO2	:	Gain ground in the advanced skills of the language.
		CO3	:	Accomplish the basic elements of English Grammar
UENL208	Advanced English II	CO1	:	Acquire the art of ProseWriting.
		CO2	:	Understand the values of life through the prescribed prose.
		CO3	:	Conceive imaginary skills through different types of essays.
UENM207	Drama	CO1	:	Understand the Origin, Growth & Development of Drama in various ages.
		CO2	:	Pursue the Plot, Characterization, Themes & Techniques of Drama.
		CO3	:	Accomplish the condition of Drama Stages of Various Ages.
UENM208	Fiction	CO1	:	Conceive the multifarious nuances of fiction.
		CO2	:	Familiarize with the social factors of English domestic life.
		CO3	:	Recognize the inevitable evolution of the new Genre-Novel.
UENA203	Social History of England	CO1	:	Acquire an in-depth knowledge on the social history of England.
		CO2	:	Recognize English thought, culture and History reflected from their study of literature
		CO3	:	Attain enlightenment on the royal and social harmony in English Life.
UENE202	Business Writing	CO1	:	Develop the ability to communicate clearly, concisely, and persuasively in various business contexts.
		CO2	:	Ability to identify key information, evaluate evidence, and make informed decisions to support their written communication.
		CO3	:	Gain an understanding of professional writing etiquette and ethical considerations in business communication.
PENM113	English Literature From 1300 – 1660	CO1	:	Understand the historical background of Middle English period
		CO2	:	Familiar with the structure of writing and language

		CO3	:	Exploring different writers and works in the Middle English period
PENM114	American Literature	CO1	:	Understand the origin of American Literature
		CO2	:	Knowledge about American beliefs and customs
		CO3	:	Observe the development of American Literature
PENM 210/ 115	English Phonetics: Theory and Practice	CO1	:	Understand the pattern of speech sound and phonemes
		CO2	:	Learn the speech theories and its application
		CO3	:	Application of pronunciation in oral communication
PENM211 / 116	Language and Linguistics	CO1	:	Understand the structure and pattern of language
		CO2	:	Exploring the linguistic signs and its meaning
		CO3	:	Familiar with the language theory and its application
PENM212 / 117	Principles of Literary Criticism	CO1	:	Understand the structure and pattern of language
		CO2	:	Exploring the linguistic signs and its meaning
		CO3	:	Familiar with the language theory and its application
PENM209	Restoration and Eighteenth Century English Literature	CO1	:	Understand the background of the restoration period
		CO2	:	Familiar with new genres that emerged during the period
		CO3	:	Exploring the writing style and themes used in the restoration period
PENM214	Feminist Writing in English	CO1	:	Learn the history and development of Feminist writing
		CO2	:	Understand the themes and symbols used by female writers
		CO3	:	Exploring the plight of Women that described through the female protagonist of the feminist writers

PENM215	Indian Writing in English	CO1	:	Explore the origin of Indian literature
		CO2	:	Familiar with the recurrent themes of Indian writers
		CO3	:	Observe the cultural pattern of India from the literary texts
PENM112 / 216	Shakespeare	CO1	:	Understanding the origin of Shakespeare period
		CO2	:	Get to know about the themes and plays of his period
		CO3	:	Exploring different stages setup and properties to enact the plays
PENM409 / 217	Postcolonial Literature	CO1	:	Explore the historical, social, and political contexts of colonialism and postcolonialism
		CO2	:	Examine themes such as identity, power, race, gender, diaspora, hybridity, and cultural negotiation
		CO3	:	Engage with a range of authors from different regions of the world, including Africa, Asia, the Caribbean, Latin America, and the Pacific, as well as diasporic communities

DEPARTMENT: COMMERCE

Course Code	Course Title	Course Outcome		
UCOM103/ UCCM103	Fundamentals of Commerce	CO1	:	Gain knowledge on fundamentals of electronic commerce.
		CO2	:	Apply the knowledge of e-commerce in the real business world
UCEA103	Business Economics	CO1	:	Gain a solid understanding of fundamental economic principles and theories
		CO2	:	Learn to identify and analyze economic trends, risks, and opportunities
		CO3	:	Develop the ability to recommend strategic adjustments based on economic insights
UMAA112	Business Mathematics	CO1	:	Develop a strong foundation in mathematical skills for various business applications.

		CO2	:	Learn to apply mathematical techniques to analyze financial data, evaluate investment opportunities, and make informed business decisions.
		CO3	:	Develop skills in statistical analysis and data interpretation in business contexts.
UCOM104/ UCCM102	Financial Accounting	CO1	:	Understand the basic rules of accounting and accounting principles.
		CO2	:	Single entry system into systematic accounting.
		CO3	:	Maintaining accounting for different types of organisations, branches and departments
UCOM204/ UCCM203	Business Correspondence	CO1	:	Develop effective communication skills by overcoming barriers to communication
		CO2	:	Prepare different types of business letters, reports and business corresspondence
UCOM206/ UCCM206 UCOM507/ UCCN507	Management Accounting	CO1	:	Learn to classify costs, differentiate between fixed and variable costs, and apply cost-volume-profit analysis
		CO2	:	Explore key performance indicators (KPIs), variance analysis, balanced scorecard frameworks, and other tools for assessing performance
		CO3	:	Ability to provide relevant and timely information to support long-term planning, risk management, and performance optimization initiatives.
UCEA202	Indian Economic Development	CO1	:	Analyze the historical trajectory of India's economic development
		CO2	:	Critically evaluate the effectiveness of various economic policies implemented in India, such as fiscal policies, monetary policies, and trade policies
		CO3	:	examine the socio-economic challenges facing India, including income inequality, regional disparities, environmental degradation, and demographic transitions
UCOR205	Commerce Workshop	CO1	:	Fillup forms used in Banks, Insurance Companies and other business units.
		CO2	:	Acquire knowledge on documentation procedure.

COURSE OUTCOMES – 2018-2019

UCOE302 UCOE203	Women Entrepreneurial Development	CO1	:	Acquire knowledge about Women entrepreneurship concepts and development.
		CO2	:	Differentiate various incentives, subsidies and taxation benefits given by government for women entrepreneurs
UCSR110	C Programming – Lab	CO1	:	Demonstrate proficiency in basic C programming concepts, including variables, data types, control structures, and functions
		CO2	:	Apply problem-solving skills to design, implement, test, and debug C programs
		CO3	:	Collaborate effectively in a team environment to complete larger programming projects
UCSA204	Object Oriented Programming	CO1	:	Analyze and design software solutions using object-oriented principles such as encapsulation, inheritance, and polymorphism
		CO2	:	Develop robust and maintainable object-oriented programs by applying best practices
		CO3	:	Contribute to project planning and documentation, and integrate individual components into a cohesive system
UCSR207	Object Oriented Programming - Lab	CO1	:	Demonstrating the ability to design and develop software solutions using object-oriented principles.
		CO2	:	Complete object-oriented programming projects, demonstrating skills in task delegation, version control, code integration, and communication
		CO3	:	Apply best practices in the context of object-oriented programming, including modular design, code reusability, error handling, and documentation
UCOE202 UCCE201	Modern Accounting Package	CO1	:	Understand the basic accounting concept and conventions
		CO2	:	Prepare trading, profit and lossa/c and balance sheet
		CO3	:	Work accounting with the help of tally
UCCE301 UCOE204	Internet Banking	CO1	:	Understand the various banking functions
		CO2	:	Compare the various merits of debit cards and credit cards in modern banking
		CO3	:	Evaluate the E-transactions facilities provided by various banks

COURSE OUTCOMES – 2018-2019

PCOM102	Business Environment & Policy	CO1	:	Understand various factors influencing business environment
		CO2	:	Realize the importance of micro and macro environment of business
		CO3	:	Analyse the role of socio-cultural and global factors on the development of economy and business
		CO4	:	Assess the implications of industrial, technological, political and legal factors on the conduct of business
PCOM104	Financial Policies and Decision Making	CO1	:	Know the financial Functions in Business Organization
		CO2	:	Familiarize the recent Global Trends in finance
		CO3	:	Take financial decisions using various techniques
PCOM105	Strategic Management	CO1	:	Understand the analysis, formulation, implementation and evaluation of management strategies
		CO2	:	Formulate strategies for international business
PCOM106	Research Methodology	CO1	:	Enable the student to understand the basic concepts of research
		CO2	:	Expose the students to have a thorough knowledge on Research
		CO3	:	Enable the students to apply statistical tools in Research
PCOM107	Corporate Governance & Business Ethics	CO1	:	Understand the concept of corporate governance and its various principles
		CO2	:	Appraise the duties and powers of board of directors
		CO3	:	Standardize business ethics in various areas of corporate sectors
PCOM202	Global Marketing	CO1	:	Gain awareness on International Marketing and Domestic Marketing.
		CO2	:	Extend knowledge on International Marketing Strategies and Operations
		CO3	:	Enhance knowledge with regard to International Trade Promotion
PCOM205	Managerial Economics	CO1	:	apply economic principles and theories to make informed managerial decisions
		CO2	:	Formulate strategies to mitigate risks and capitalize on opportunities effectively

		CO3	:	Support decision-making processes and maximize organizational performance and competitiveness
PCOM207	Operation Research Methods	CO1	:	Develop proficiency in applying research techniques to solve complex decision-making problems
		CO2	:	Acquire skills in decision analysis and uncertainty modeling, enabling them to make informed decisions
		CO3	:	Gain hands-on experience with relevant optimization software tools and programming languages
PCOM208	Advanced Accounting	CO1	:	Gain Knowledge in Corporate Accounting
		CO2	:	Create awareness with regard to Merger and Acquisition
		CO3	:	Enhance the student knowledge with regard to Banking and insurance Business
PCOE202	Export & Import Procedures	CO1	:	Gain knowledge with the procedures of export and import transactions
		CO2	:	Apply the documentation of formalities related to export and import transactions
PCOE203	Accounting Package	CO1	:	Gain knowledge in financial accounting
		CO2	:	Use of computers in the area of financial accounting
		CO3	:	Become competent in the employment arena

DEPARTMENT: BUSINESS ADMINISTRATION

Course Code	Course Title	Course Outcome		
UBAM105	Management Thoughts And Thinker	CO1	:	Use the principles and concepts of management at the workfront
		CO2	:	Analyse the managerial problems from different perspectives
		CO3	:	Handle future issues that will affect the organisations with sound conceptual knowledge
UBAM106	Business Organization	CO1	:	Understanding of the main working aspects of organizations not only from an economic point

				of view but also considering organizations as part of society
		CO2	:	Analysis of the economic environment of organisations by means of the development of conceptual areas such as industry, human resources and production
		CO3	:	Knowledge of a comprehensive glossary of economic terms widely used in the analysis and discussion of behaviour organisation
UBAM108/ UCOM104/ UCCM102	Financial Accounting	CO1	:	Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP (Generally Accepted Accounting Principles)
		CO2	:	Equip with the knowledge of accounting process and preparation of final accounts of sole trader
		CO3	:	Describe the role of accounting information and its limitations
UCEA103	Business Economics	CO1	:	Develop a deep understanding of microeconomic principles and their applications to real-world business scenarios
		CO2	:	Learn to evaluate business strategies using economic frameworks and tools
		CO3	:	Acquire skills in economic forecasting and decision-making under conditions of uncertainty
UBAM206	Business Environment	CO1	:	Familiarize with the nature of business environment and its components
		CO2	:	Understand the influence of various environmental factor on business operations
		CO3	:	The students will be able to demonstrate and develop conceptual framework of business environment and generate interest in international business
UBAM207	Principles of Management	CO1	:	Describe the process of management functions: planning, organising, leading and controlling
		CO2	:	Identify and properly use vocabularies within the field of management to articulate one's issue and communicate effectively with varied audiences
		CO3	:	Evaluate leadership styles to anticipate the consequences of each leadership style
UBAR201	Workshop on Decision Making	CO1	:	Apply decision-making models to solve real-world problems efficiently, fostering critical

				thinking skills.
		CO2	:	Evaluate alternatives effectively, considering risks and uncertainties, enhancing decision-making competency.
		CO3	:	Collaborate in group settings, integrating diverse perspectives to optimize decision outcomes collaboratively.
UCOA203	Accounting Package Theory	CO1	:	Comprehend accounting software fundamentals, including features, functionalities, and applications, for efficient financial management.
		CO2	:	Analyze theoretical underpinnings of accounting software, facilitating informed selection, implementation, and optimization strategies.
		CO3	:	Evaluate the impact of accounting software on organizational processes, enhancing decision-making, reporting, and compliance capabilities.
UCOR 203	Accounting Package Practical	CO1	:	Proficiency in utilizing accounting software for data entry, financial reporting, and analysis tasks.
		CO2	:	Application of accounting principles to practical scenarios, enhancing skills in financial management.
		CO3	:	Competence in generating financial statements, budgeting, and reconciling accounts using industry-standard accounting software.
UBAE202	Leadership Skills	CO1	:	Develop effective communication and conflict resolution skills, fostering cohesive team dynamics and productivity.
		CO2	:	Cultivate self-awareness and emotional intelligence to inspire and motivate others, fostering transformative leadership.
		CO3	:	Acquire decision-making and strategic planning abilities, empowering effective leadership in diverse organizational contexts.
UBAE304	Rural Management	CO1	:	Understand rural development theories, policies, and practices, facilitating effective leadership in rural contexts.
		CO2	:	Apply management principles to address rural challenges, promoting sustainable development and community empowerment.

		CO3	:	Analyze rural economies, institutions, and governance structures, fostering innovative strategies for rural development and poverty alleviation.

DEPARTMENT: PHYSICAL SCIENCE

Course Code	Course Title	Course Outcome		
UPHM103	Mechanics	CO1	:	Learning the knowledge of different types of motion and gravitation
		CO2	:	Identify the dynamics of frigid bodies in terms of moment of inertia
		CO3	:	Easily understand the basics of classical mechanics and its applications
UPHM105 UPHM202	Properties of Matter	CO1	:	The basics of electricity and its importance in beams and girders.
		CO2	:	Comprehend the concepts of surface tension, viscosity and their applications
		CO3	:	Examine the knowledge of diffusion, Bernoulli's theorem, ultra sonic and their applications.
UPHR102 UPHR202	Major Practical	CO1	:	Demonstrate proficiency in experimental techniques, data analysis, and instrumentation, advancing skills in physics research.
		CO2	:	Apply theoretical knowledge to design and conduct experiments, fostering critical thinking and problem-solving abilities.
		CO3	:	Communicate experimental findings effectively through reports and presentations, honing scientific communication skills essential for academia.
UMAA104	Algebra, Differential Calculus and Trigonometry	CO1	:	Master fundamental algebraic concepts, differential calculus techniques, and trigonometric identities, essential for physics applications.
		CO2	:	Apply algebraic manipulation, differentiation, and trigonometric functions to solve complex physics problems effectively.
		CO3	:	Develop mathematical fluency to interpret physical phenomena and equations, supporting advanced studies and research.

COURSE OUTCOMES – 2018-2019

UPHM104/ UPHM203	Thermal and Statistical Physics	CO1	:	Learning to understand the basic principles of heat and laws of thermodynamics
		CO2	:	Acquire knowledge of maxwell's thermodynamics relations
		CO3	:	Summarize the concepts of statistical physics and its applications
UPHR203/ UPHR101	Major Practical II	CO1	:	Apply advanced experimental techniques in optics, electronics, and modern physics, refining practical laboratory skills.
		CO2	:	Analyze experimental data using statistical methods, enhancing proficiency in data interpretation and analysis
		CO3	:	Demonstrate competence in designing and conducting experiments, fostering independent research skills in physics.
UMAA212	Integral Calculus, Laplace Transform and Ordinary Differential equation	CO1	:	Master integral calculus techniques, Laplace transform methods, and ordinary differential equation solutions for physics applications.
		CO2	:	Apply integral calculus to analyze physical systems and Laplace transforms to solve differential equations.
		CO3	:	Develop problem-solving skills essential for understanding dynamic systems and phenomena encountered in physics.
UPHE202	Applied physics	CO1	:	Apply principles of physics to real-world problems in engineering, technology, and interdisciplinary fields.
		CO2	:	Analyze and solve practical problems using theoretical physics concepts, fostering critical thinking skills.
		CO3	:	Demonstrate proficiency in experimental techniques and instrumentation, preparing for careers in applied sciences and engineering.
UPHE203	Biomedical instrumentation	CO1	:	Apply physics principles to design, operate, and maintain biomedical instruments for healthcare diagnostics and research.
		CO2	:	Analyze data acquired from biomedical instruments, interpreting physiological parameters and phenomena accurately.
		CO3	:	Demonstrate proficiency in utilizing biomedical instrumentation, preparing for roles in healthcare technology and research.
UPHE204	Electrical appliances	CO1	:	Introduce the various Principles of Analog Electronics and its applications to various

				electronic instruments
		CO2	:	Provide a theoretical basis for the electronics experiments that the students will do in their practical sessions
UPHE304/ UPHE503	Telecommunication System	CO1	:	Understand the principles and components of telecommunication systems, including transmission, reception, and signal processing.
		CO2	:	Analyze the performance and efficiency of telecommunication systems, optimizing parameters for effective communication.
		CO3	:	Demonstrate proficiency in designing and troubleshooting telecommunication systems, preparing for careers in telecommunications engineering.
UPHE303	Servicing and maintenance of home appliances	CO1	:	Understand the operation and components of home appliances for effective servicing and maintenance practices.
		CO2	:	Diagnose and troubleshoot common issues in home appliances, ensuring optimal performance and safety.
		CO3	:	Demonstrate proficiency in servicing and maintaining various home appliances, preparing for practical applications in households.
PPHM101	Mathematical Physics I	CO1	:	Acquire mathematical knowledge and apply into various physical phenomena
		CO2	:	Develop problem solving ability related to physical problems
		CO3	:	Enhance basic skills of learning and appreciating physics through mathematics
PPHM102	Classical Mechanics	CO1	:	Learning to understand the fundamental principles of classical mechanics and their applications
		CO2	:	Develop familiarity with the physical concept and facility with the mathematical methods of Classical Mechanics
		CO3	:	Examine different formulations on classical dynamics with their applications
PPHM105	Electronics	CO1	:	Learning to understand basic and advancexd electronic concepts
		CO2	:	Understand how to design circuits which can process digital data
		CO3	:	Establish the various principles of analog electronics and its applications

COURSE OUTCOMES – 2018-2019

PPHM104	Electromagnetic Theory	CO1	:	Learning to understand the law and their applications associated with electrostatics and magnetostatics
		CO2	:	Explain the laws associated with electromagnetic theory and its applications
		CO3	:	Compare the production of electromagnetic waves and its propagation in different media
PPHM106/ PPHM203	Molecular Spectroscopy	CO1	:	Learning to acquire the knowledge of interaction electromagnetic radiation with atoms and molecules and study the different types of spectra
		CO2	:	Know the spectroscopic techniques to find the molecular structure, bond angles and bond length etc…
		CO3	:	Explain the uses of spectroscopic methods for qualitative and quantitative analysis
PPHM205/ PPHM401	Mathematical Physics II	CO1	:	Understand the various mathematical representations
		CO2	:	Acquire knowledge about the tensor analysis
		CO3	:	Formulate the greens function and probability
PPHM201	Quantum Mechanics I	CO1	:	Learning to understand basic idea of Dirac formalism to Quantum Mechanics
		CO2	:	Apply the same formalism to study the angular momentum concept, scattering of fundamental particles and necessary relativism modification in particle behaviour
		CO3	:	Learning to understand the similarities between classical and quantum mechanics
PPHM202	Statistical Mechanics	CO1	:	Review the fundamental concepts of thermodynamics in order to understand classical statistical mechanics
		CO2	:	Learning to understand the principles of classical statistical mechanics and its application to compute the various parameters of molecules
		CO3	:	Apply techniques from statistical mechanics to a range of situations
PPHM207/ PPHM302	Solid State Physics I	CO1	:	Learning to understanding of the structural aspects and physical properties of condensed matter
		CO2	:	Evaluate about the nature of materials

		CO3	:	Describe basic experimental measurements to show typical data sets and to compare these with theory
PPHR202	General practical – I	CO1	:	Mastery of experimental techniques, data analysis, and interpretation for foundational physics principles.
		CO2	:	Proficiency in utilizing modern laboratory equipment to investigate classical and contemporary physics phenomena.
		CO3	:	Development of critical thinking skills through designing, executing, and presenting experiments independently.

DEPARTMENT: CHEMISTRY

Course Code	Course Title	Course Outcome		
UCHM104	Fundamentals of Chemistry	CO1	:	Acquire knowledge and calculate the equivalent weight of the molecules
		CO2	:	Classify acid, base and chemical bonding
		CO3	:	Formulate the organic creations and solutions
UCHM105	General Chemistry –I	CO1	:	Recognize the modern periodic classification of element and states of matter
		CO2	:	Predict the Nomenclature of the organic compounds
		CO3	:	Evaluate the gaseous and thermochemical equations
UCHM106/ UCHM107	Analytical Chemistry	CO1	:	Understand the manipulating skills in handling apparatus and instruments
		CO2	:	Employ the first aid techniques in laboratory
		CO3	:	Formulate the theoretical aspects of qualitative, volumetric analysis and analytical techniques in chemistry
UCHR204/ UCHR205	Volumetric Analysis	CO1	:	Estimate the presence of chemical substances using volumetric analysis
UPHA101	Allied Physics - I	CO1	:	Apply principles of mechanics to understand molecular motion and properties of matter
		CO2	:	Analyze electromagnetic phenomena to explain spectroscopic techniques crucial for chemical analysis

		CO3	:	Evaluate quantum mechanics concepts to comprehend atomic structure and chemical bonding
UPHR102	Allied Physics Practical-I	CO1	:	Execute experiments to measure fundamental physical quantities essential for chemical analysis
		CO2	:	Apply laboratory techniques to investigate properties of matter and chemical reactions
		CO3	:	Interpret experimental data using statistical methods to analyze chemical phenomena effectively
UCHM202	General Chemistry –II	CO1	:	Acquire the basics in acid radicals
		CO2	:	Develop analytical skills in qualitative inorganic Analysis
UPHA201	Allied Physics II	CO1	:	Demonstrate understanding of thermodynamics principles to analyze energy changes in chemical systems in B.Sc. Chemistry.
		CO2	:	Apply principles of optics to interpret spectroscopic data crucial for chemical analysis in B.Sc. Chemistry.
		CO3	:	Utilize knowledge of modern physics to understand the behaviour of materials and molecules
UPHR202	Allied Physics Practical-II	CO1	:	Develop proficiency in using laboratory equipment and techniques for accurate physical measurements.
		CO2	:	Analyze and interpret experimental data to validate physical theories and principles.
		CO3	:	Enhance ability to prepare detailed lab reports and effectively communicate scientific findings.
UCHE206	Cosmetics and Detergents	CO1	:	Gain knowledge of the chemical principles behind the formulation of cosmetics and detergents.
		CO2	:	Develop practical skills in synthesizing and analyzing various cosmetic and detergent products.
		CO3	:	Understand safety protocols and regulatory standards governing the production of cosmetics and detergents.
UCHE207	Green Chemistry	CO1	:	To focus on the principles of green chemistry

		CO2	:	To make the students aware of green chemistry by evaluating with examples
		CO3	:	To enlighten the students about the future trends in green chemistry
UCHE204	Food Chemistry	CO1	:	Understand and analyze the chemical composition of various food substances and their nutritional values.
		CO2	:	Learn techniques for food preservation, including chemical additives and natural preservation methods.
		CO3	:	Gain knowledge of safety standards and quality control measures in food production and processing.
UCHE205	Health and Hygiene	CO1	:	Understand the chemical basis of health, hygiene, and disease prevention in daily life.
		CO2	:	Apply knowledge of chemical disinfectants and hygiene practices to maintain personal and public health
		CO3	:	Analyze the impact of various chemicals on human health and environmental hygiene.
UCHE208	Health Chemistry	CO1	:	Understand biochemical processes underlying human health and the role of nutrients and drugs.
		CO2	:	Analyze the impact of chemicals and toxins on physiological functions and overall health.
		CO3	:	Apply chemical knowledge to develop strategies for disease prevention and health maintenance.
PCHM107/ PCHM1 11	Organic Chemistry-I	CO1	:	Impart the knowledge of the synthetic applications of organic compounds
		CO2	:	Enable the students to be more inquisitive in learning the mechanistic details in organic chemistry through the teaching of the name reactions
		CO3	:	Structural elucidation of Organic Compounds by spectral methods.
PCHM108/ PCHM1 1	Inorganic Chemistry-I	CO1	:	To comprehend the nature of metals of d block elements
		CO2	:	To learn the basic concept and theory in co-ordination chemistry
		CO3	:	To create awareness of the biological aspects of metal
PCHM109	Physical	CO1	:	To improve the ability of mathematical

	Chemistry-I			calculations involved in Physical Chemistry
		CO2	:	To enable the students to understand the concepts of thermodynamics and apply it to more space physical and chemical system
		CO3	:	To make the students know the concepts of Kinetics to different processes
PCHM110	Nano Science and Nano Materials	CO1	:	Understand the fundamental principles and properties of nanoscience and nanomaterials in various applications
		CO2	:	Develop skills to synthesize, characterize, and manipulate nanomaterials for scientific and industrial uses.
		CO3	:	Analyze the impact and potential risks of nanotechnology on health, environment, and society.
PCHR203	Organic Practical	CO1	:	Acquire the skills in the Estimation & Preparation of organic compounds.
		CO2	:	Analyse the various isolation techniques
PCHR204	Inorganic Practical	CO1	:	Formulate the preparation of inorganic complexes
		CO2	:	Develop the skills to separate and and analyze the inorganic compounds.
		CO3	:	Analyze the metal or ions present in the compound or substance by volumetrically or gravimetrically
PCHM204	Organic Chemistry-II	CO1	:	Analyze the advanced reaction mechanism in aromatic compounds
		CO2	:	Predict the chemistry of Hormones
		CO3	:	Synthesize the size to extract terpenoids from natural products
PCHM205	Inorganic Chemistry-II	CO1	:	Recognize the bonding of inorganic & organic metallic compounds
		CO2	:	Interpret the arrangements of ions in the structure from various solid substances
		CO3	:	Deduce the photochemistry of inorganic compound and function of bio-inorganic compounds
PCHM206	Physical Chemistry-II	CO1	:	Understand the fundamentals of group theory and identify the point group in the molecules
		CO2	:	Analyze different chemical reactions occurring in electrodes and electro chemistry
		CO3	:	Apply the wave mechanics to simple system

PCHX201	Vermi composting	CO1	:	Understand the biological and ecological principles of vermicomposting for sustainable organic waste management practices.
		CO2	:	Develop skills to create, maintain, and troubleshoot effective vermicomposting systems for various organic waste types.
		CO3	:	Evaluate the economic and environmental benefits of vermicomposting in agriculture and waste reduction initiatives.

DEPARTMENT: BIOCHEMISTRY

Course Code	Course Title	Course Outcome		
UBCM106	Fundamentals of Biochemistry	CO1	:	Understand the structure and function of biomolecules crucial for cellular processes and metabolic pathways.
		CO2	:	Analyze enzyme kinetics and regulatory mechanisms essential for metabolic control and biochemical reactions.
		CO3	:	Apply fundamental biochemical techniques for the qualitative and quantitative analysis of biological molecules.
UBCM105/ UBCM201	Cell Biology	CO1	:	Understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macro molecules, membranes and organelles
		CO2	:	Acquire the knowledge about how the cellular components are used to generate and utilize energy cells
UBCR101	Cell Biology Practical	CO1	:	Perform microscopy techniques to observe and analyze cellular structures and organelles in various specimens.
		CO2	:	Conduct cell fractionation and staining procedures to study cellular components and their biochemical functions.
		CO3	:	Apply cell culture techniques to investigate cell growth, behaviour, and responses to different treatments.

COURSE OUTCOMES – 2018-2019

UCHA102	Chemistry	CO1	:	Understand fundamental chemical principles, including atomic structure, bonding, and periodicity of elements.
		CO2	:	Analyze chemical reactions, mechanisms, and thermodynamics essential for biochemical processes and metabolic pathways.
		CO3	:	Apply laboratory techniques to synthesize, characterize, and quantify chemical compounds relevant to biochemistry.
UCHR102	Chemistry Practical	CO1		Develop proficiency in laboratory techniques for synthesizing, purifying, and characterizing chemical compounds.
		CO2	:	Perform quantitative and qualitative analysis of chemical substances using titration, chromatography, and spectroscopy methods.
		CO3	:	Apply safety protocols and proper laboratory practices to conduct experiments accurately and efficiently.
UBCM202	Biomolecules	CO1	:	Understand the structure, properties, and functions of biomolecules including proteins, nucleic acids, carbohydrates, and lipids.
		CO2	:	Analyze biochemical reactions and metabolic pathways involving biomolecules in cellular processes and energy production.
		CO3	:	Apply spectroscopic and chromatographic techniques to study biomolecule structure, interaction, and biochemical properties in laboratory settings.
UBCR201	Qualitative analysis of Biomolecules	CO1	:	Identify biomolecules qualitatively using chemical tests, chromatography, and spectroscopic methods for biochemical analysis.
		CO2	:	Interpret experimental data to characterize biomolecule structure, composition, and functional groups in laboratory settings.
		CO3	:	Apply principles of qualitative analysis to identify and differentiate biomolecules in complex biological samples accurately.
UMBA201	Microbiology	CO1	:	Understand microbial diversity, morphology, physiology, and genetics, including their relevance to biochemical processes.
		CO2	:	Analyze microbial growth, metabolism, and interactions in various environments, including industrial and medical settings.

		CO3	:	Apply microbiological techniques to isolate, identify, and manipulate microorganisms for research, biotechnology, and medical purposes.
UMBR201	Microbiology Practical	CO1	:	Develop skills in aseptic techniques, media preparation, and culture maintenance for handling microorganisms safely.
		CO2	:	Perform microbial isolation, identification, and characterization techniques using staining, microscopy, and biochemical tests.
		CO3	:	Apply microbiological methods to analyze environmental samples and assess microbial growth, diversity, and metabolic activities accurately.
UBCE202	Biomedical Techniques	CO1	:	Gain proficiency in modern biomedical techniques for biochemical analysis, including chromatography, spectro photometry, and electrophoresis.
		CO2	:	Apply molecular biology techniques such as PCR, DNA sequencing, and gene expression analysis in biomedical research.
		CO3	:	Understand principles of immunological techniques for protein detection, quantification, and analysis in clinical and research settings.
UBCE401 UBCE203	Nutrition & Health	CO1	:	Evaluate food quality based on food labelling, nutrition labelling and food safety practices
		CO2	:	Identify the nutrient needs to maintain health and body
UBCE502 UBCE204	Women's Health, Nutrition & Disorders	CO1	:	Identify strategies for food access, procurement, preparation and safety for individuals, families and communities
		CO2	:	Provide nutrition education to individuals, groups and communities throughout the lifespan using a variety of communication strategies
UBCE304 UBCE208	Mushroom Cultivation	CO1	:	Understand the biological and ecological principles underpinning mushroom growth and development for efficient cultivation.
		CO2	:	Develop practical skills in mushroom spawn preparation, substrate selection, and cultivation techniques for various species.
		CO3	:	Evaluate the nutritional and medicinal benefits of mushrooms and their potential in

				biotechnological applications.
UBCE209	Clinical Diagnostics	CO1	:	Understand principles of clinical diagnostic techniques for the detection and monitoring of diseases and disorders.
		CO2	:	Develop proficiency in laboratory methods for biochemical analysis of blood, urine, and other body fluids.
		CO3	:	Interpret diagnostic test results to assess patient health and guide clinical decision-making and treatment plans.
UBCE210	Reproductive Biology	CO1	:	Understand the molecular and physiological mechanisms regulating reproductive systems in humans and other organisms.
		CO2	:	Analyze hormonal regulation and signaling pathways involved in gametogenesis, fertilization, and embryonic development.
		CO3	:	Apply techniques to study reproductive health, fertility treatments, and developmental biology in laboratory settings.
PBCM101	Biomolecular Chemistry	CO1	:	Understand the relationship between the properties of macro molecules and cellular alternatives
		CO2	:	Able to assess the significance of fundamental chemical properties on biomolecular structure
		CO3	:	Able to evaluate, summarize and critique papers from the scientific literature
PBCM102	Cell Biology	CO1	:	Understand the structure and functions of prokaryotic, eukaryotic and their metabolic process
		CO2	:	Apply the biochemical techniques for identification of morphological and functional changes in cell related pathology
PBCM203/105	Microbiology	CO1	:	Demonstrate practical skills in the use of tools, technologies and methods common to microbiology
		CO2	:	Acquire and demonstrate competence in laboratory safety and in routine and specialized microbiological laboratory skills applicable to microbiological research or clinical methods including accurately reporting observations and analysis
PBCR201/102	Microbiology and Molecular Biology	CO1	:	Understand safe laboratory practices and perform basic molecular biology techniques

	Practical	CO2	:	Provide training in the practical skill necessary for microbiology in academic research or in the workplace
		CO3	:	Analyse and report on complex research questions and solve problems plan a work program or diagnostic strategy and learn independently
PBCM201	Metabolism & Regulation	CO1	:	Demonstrating and understanding of the diversity of metabolic regulation and how this is specifically achieved in different cells
		CO2	:	Provide the knowledge of the basic metabolic pathways inborn errors of metabolism and the control and integration of metabolism
PBCM202	Human Physiology	CO1	:	Understand the Physiology of human body and to study the way the body functions
		CO2	:	Interpret and draw inferences from experimental measures of physiological organs
PBCM103/205	Analytical Biochemistry	CO1	:	Create awareness about the instruments used in biological research
		CO2	:	Apply and analyse the biochemical samples using various instruments in biological research
PBCM104/206	Endocrinology	CO1	:	Peruse the regulation of metabolic functions of human body by the endocrine system through various signalling pathways
		CO2	:	Acquire in-depth knowledge about types, classification, biosynthesis interaction, function and regulation of hormones
PBCR101/202	Analytical Biochemistry Practicals	CO1	:	Recognise analytical techniques that are commonly used in research and clinical laboratories
		CO2	:	Demonstrate practical skills and interpret experimental results within the context of taught material
		CO3	:	Provides thorough training and hands on experience in fundamental practical skills required for employment as a biochemical scientist
PBCX201	Mushroom cultivation (Service	CO1	:	Apply laboratory techniques to the capture, culture and fruiting of many types of mushrooms in the home kitchen lab

	Learning)	CO2	:	Identify self employment business opportunities in chosen sector/sun-sector and plan and market and sell products/services

DEPARTMENT: MATHEMATICS

Course Code	Course Title	Course Outcome		
UMAM107	Fundamentals of Mathematics	CO1	:	Develop a knowledge and understanding of numbers and arithmetic
		CO2	:	Develop competence in the skills of basic arithmetic
		CO3	:	Understanding of the concepts of mathematics relevant to degrees requiring a basic level of mathematical ability
UMAM104	Differential calculus	CO1	:	Explain the relationship between the function and the notion of Derivative
		CO2	:	Compare and Contrast the ideas of Continuity and Differentiability
		CO3	:	To solve Algebraic Equations and Inequalities
UMAM106	Analytical Solid Geometry	CO1	:	Learn Sketching of Various Curves
		CO2	:	Understand the various concepts of Analytical Solid Geometry
		CO3	:	Implement Arithmetical and Geometric Operations in solving Vectors in the Plane
UMAA111	Mathematical Statistics	CO1	:	Acquire good knowledge of various concepts of Probability
		CO2	:	Analyse the Concepts of Probability and Statistics
		CO3	:	Apply the laws of Probability to Concrete Problems
UMAM204	Integral Calculus	CO1	:	Describe the Definite Integral and Construct Anti derivatives using Fundamental Theorem of Calculus
		CO2	:	Express the Area as a Limit of a Infinite sum
		CO3	:	Solve Integrals using By Properties.

COURSE OUTCOMES – 2018-2019

UMAM402 / UMAM205	Graph Theory	CO1	:	Determine the basic concepts of graphs, directed graphs and weighted graphs
		CO2	:	Define the properties of bipartite graphs particularly in trees
		CO3	:	Understand the concept of colourings and theory
UMAM606/ UMAM206	Discrete Mathematics	CO1	:	Apply recursive functions and solve recurrence relations
		CO2	:	Determine equivalent logic expressions
		CO3	:	Describe useful standard library functions, create functions and declare parameters
UMAE204	Basic Mathematics for Science	CO1	:	Understand fundamental mathematical concepts and techniques essential for solving scientific problems effectively.
		CO2	:	Apply calculus, algebra, and statistics to analyze and interpret scientific data accurately.
		CO3	:	Develop problem-solving skills and mathematical reasoning applicable to various scientific disciplines and research.
UMAE202	Mathematics for Business and Decision Making	CO1	:	Understand mathematical techniques for analyzing business problems and making informed decisions.
		CO2	:	Apply statistical methods to interpret data and solve real-world business challenges.
		CO3	:	Develop skills in optimization and financial mathematics to enhance decision-making processes.
UIDE302/ UMAE302 UMAE206	Numerical Methods using C++	CO1	:	Develop proficiency in implementing numerical algorithms using C++ for solving mathematical problems.
		CO2	:	Apply numerical methods to approximate solutions for equations and analyze their accuracy.
		CO3	:	Understand error analysis and stability in numerical computations for reliable problem-solving.
UMAE40 UMAE306	Operations Research for Managers	CO1	:	Understand and apply optimization techniques to improve managerial decision-making and resource allocation.
		CO2	:	Analyze complex business problems using linear programming, integer programming, and network models.

		CO3	:	Develop strategic problem-solving skills through simulation and queuing theory for efficient operations management.
UMAA501 UMAE305 UMAE207	Statistical Data Analysis through SPSS	CO1	:	Understand statistical concepts and methods for data analysis using SPSS software effectively.
		CO2	:	Apply SPSS tools to manage, analyze, and interpret quantitative data accurately.
		CO3	:	Develop skills to generate reports and visualizations for informed decision-making in various fields.
UMAE30 UMAE208	Applied Mathematics	CO1	:	Understand and apply mathematical techniques to solve real-world problems in various scientific fields.
		CO2	:	Develop analytical skills using differential equations, linear algebra, and numerical methods.
		CO3	:	Apply mathematical modeling to interpret and predict complex systems and phenomena.
PMAM107	Abstract Algebra	CO1	:	Understand the connection and transition of advanced Mathematics
		CO2	:	Acquire Important Mathematical concepts in Abstract A1 Algebra
		CO3	:	Solve problems using Algebraic techniques
PMAM102	Real Analysis	CO1	:	Understand the theory of sequences and series, Continuity, Differentiation and Integration
		CO2	:	Describe the Fundamental properties of the real numbers
		CO3	:	Apply analytical skills in constructing rigorous mathematical Arguments
PMAM103	Ordinary Differential Equations	CO1	:	Effectively write Mathematical Solutions in a clear and concise manner
		CO2	:	Locate and use information to solve first and second order Ordinary differential equations
		CO3	:	Demonstrate Ability to think critically by determining and using appropriate techniques for solving a variety of Differential Equations
PMAM105	Calculus Of Variations And Integral Equations	CO1	:	Understand the fundamental concepts of the space relative minimum of an Integral
		CO2	:	Recognise difference between Volterra and Fredholm Integral Equations, First kind and Second kind, Homogenous and Inhomogenous etc…

		CO3	:	Apply different methods to solve Integral Equations
PMAM106/ PMAM407	Fuzzy Analysis	CO1	:	Analyse Statistical data by using Fuzzy Logic methods
		CO2	:	Apply Statistical method against Fuzzy Logic methods
		CO3	:	Demonstrate Fuzzy Logic Methods
PMAM209	Linear Algebra	CO1	:	Recognise and Comprehend Proofs of formal statements
		CO2	:	Generalise the concepts of a Real (Complex) Vector Space to an Arbitrary Finite-Dimensional Vector Space.
		CO3	:	Investigate Properties of Vector Spaces and sub spaces by using Linear Transformations
PMAM202	Measure and Integration	CO1	:	Understand basic notions in Topological Spaces and the n-dimensional space
		CO2	:	Describe the Construction and apply the Lebesgue Integral
		CO3	:	Apply Lebesgue Decomposition and the Radon-Nikodym theorem
PMAM206	Partial Differential Equations	CO1	:	Understand the Physical behavior of the Mathematical model
		CO2	:	Discuss the solution to Higher order partial differential equations
PMAM204	Classical Mechanics	CO1	:	Define Mechanical concepts related to Discrete and Continuous mechanical systems
		CO2	:	Describe the Vibrations of Discrete and Continuous Mechanicals system
		CO3	:	Derive Planar and Spatial motion of a rigid body
PMAM208	Operations Research	CO1	:	Understand the Characteristics of Decision Making Environments
		CO2	:	Solve Transportation Models and Assignment Models
		CO3	:	Design new simple models like CPM, MSPT to improve decision-making skills
PMAX201/ PMAX202	Mathematics for High School Students/ Elementary Mathematics for Higher Secondary Students	CO1	:	Understand Mathematics and to teach easily.
		CO2	:	Apply national and state standards for Mathematics education to develop content – appropriate lessons
		CO3	:	Use and compare different assessment techniques

PMAE101/ PMAE209	LaTeX and MAT Lab	CO1	:	Master the use of LaTeX for creating professional scientific documents and presentations.
		CO2	:	Develop proficiency in MATLAB for numerical computing, data visualization, and algorithm development.
		CO3	:	Apply LaTeX and MATLAB skills to document and solve complex mathematical problems effectively.

DEPARTMENT: COMPUTER SCIENCE

Course Code	Course Title	Course Outcome		
UCSM106/U CAM107	Programming in C	CO1	:	Understand the concepts of structured Programming
		CO2	:	Acquire Knowledge on control structures, arrays, functions, pointers
		CO3	:	Solve Logical problems using C language
UCSM107 / UCAM108	Fundamental of Computer Science	CO1	:	Obtain basic knowledge about computer classification & anatomy
		CO2	:	Understand the concepts of Input, Output, CPU and Memory
		CO3	:	Acquire knowledge about Hardware, Software and Networks
UCSM108 / UCAM109	Advanced Computer Science	CO1	:	Understand advanced algorithms, data structures, and their applications in solving complex computational problems.
		CO2	:	Develop proficiency in software design, optimization, and implementation using modern programming languages and tools.
		CO3	:	Analyze and apply advanced concepts in artificial intelligence, machine learning, and data analytics.
UCSR109/ UCAR105	Programming in C - Practical	CO1	:	Design, build, execute and debug C programs.
		CO2	:	Develop programs by using control structures arrays functions
UMAA113	Statistical Methods	CO1	:	Understand fundamental statistical concepts and techniques for data analysis and

				interpretation.
		CO2	:	Apply statistical methods to real-world problems using computational tools and software.
		CO3	:	Develop skills in hypothesis testing, regression analysis, and probability theory for scientific research.
UCSM206/ UCAM205	Data Structures	CO1	:	Understand and implement various data structures to efficiently manage and organize data.
		CO2	:	Develop problem-solving skills using algorithms for data manipulation and retrieval.
		CO3	:	Apply data structures like stacks, queues, and trees to optimize computational tasks.
UCSR206/ UCAR204	Data Structures - Practical	CO1	:	Master implementation of data structures through practical exercises, enhancing problem-solving and coding proficiency.
		CO2	:	Develop skills in debugging, testing, and optimizing data structure implementations for efficient algorithmic solutions.
		CO3	:	Apply data structures in practical scenarios, fostering creativity and adaptability in designing algorithmic solutions
UMAA210	Mathematics for Computer Science	CO1	:	Understand mathematical concepts essential for computer science, including discrete mathematics, logic, and graph theory.
		CO2	:	Apply mathematical principles to analyze algorithms, optimize computational processes, and solve complex problems
		CO3	:	Develop critical thinking and problem-solving skills through mathematical reasoning and abstraction in computer science contexts.
UCSE206	Tableau Programming	CO1	:	Master Tableau programming for creating interactive data visualizations and dashboards for effective data analysis.
		CO2	:	Develop skills in data manipulation, aggregation, and visualization using Tableau software tools.
		CO3	:	Apply Tableau programming techniques to present insights and trends from complex datasets in a visually appealing manner.
UCSE207	Python Programming	CO1	:	Master Python programming fundamentals, including syntax, data structures, and control flow, for solving computational problems.

		CO2	:	Develop proficiency in using Python libraries for data manipulation, analysis, and visualization in various applications.
		CO3	:	Apply object-oriented programming concepts in Python to design and implement efficient and scalable software solutions.
UCSE208	R Programming	CO1	:	Master R programming language for statistical analysis, data visualization, and machine learning applications in computer science.
		CO2	:	Develop proficiency in using R packages for data manipulation, exploratory data analysis, and statistical modeling.
		CO3	:	Apply R programming skills to analyze real-world datasets and derive meaningful insights for decision-making in various domains.
UCSE209	Arduino Programming	CO1	:	Master Arduino programming for developing embedded systems, IoT applications, and sensor-based projects in computer science.
		CO2	:	Develop proficiency in writing and debugging Arduino sketches for controlling hardware components and sensors.
		CO3	:	Apply Arduino programming skills to design and implement innovative projects integrating software and hardware functionalities.
PCSM111/ PCSM403	Internet of Things	CO1	:	Understand the basic issues, policy and challenges in the Internet
		CO2	:	Examine the components and the protocols in Internet
		CO3	:	Build a small low cost embedded system with the Internet
PCSM112	Object Oriented Software Engineering	CO1	:	Understand object-oriented principles for designing, implementing, and maintaining robust software systems.
		CO2	:	Apply UML diagrams for visualizing and documenting software architecture and design.
		CO3	:	Develop teamwork and communication skills for collaborative software development projects.
PCSM113/ PCAM314	Data Mining	CO1	:	Master data mining techniques for extracting patterns, trends, and insights from large datasets.
		CO2	:	Apply machine learning algorithms for predictive modeling and pattern recognition tasks.

		CO3	:	Develop skills in data preprocessing, feature selection, and evaluation metrics optimization
PCSM114/ PCSM210	Design and Analysis of Algorithm	CO1	:	Understand the concept of Algorithm
		CO2	:	Solve problems on grredy and backtracking
		CO3	:	Analysis the algorithm
PCSM115	Virtual Reality	CO1	:	Master virtual reality development for creating immersive simulations and interactive experiences.
		CO2	:	Apply 3D modeling, animation, and programming skills to design virtual environments.
		CO3	:	Develop user interface design and human-computer interaction principles for VR applications.
PCSR106/ PCAR405	UML - Practical	CO1	:	Develop proficiency in creating UML diagrams for software modeling and design.
		CO2	:	Apply UML diagrams to represent system architecture, classes, and relationships.
		CO3	:	Practice UML tools for collaborative software development and documentation.
PCSR107/ PCAR306	Data Mining using WekaTool - Practical	CO1	:	Master data mining techniques using WekaTool for analyzing and interpreting complex datasets.
		CO2	:	Apply WekaTool for preprocessing, classification, clustering, and association rule mining.
		CO3	:	Develop practical skills in feature selection, model evaluation, and performance optimization.
PCSM212	Multimedia and its Applications	CO1	:	Understand multimedia concepts and technologies for creating, editing, and distributing digital content.
		CO2	:	Apply multimedia tools for designing graphics, animations, audio, and video productions.
		CO3	:	Develop skills in multimedia integration for interactive applications and web development.
PCSM211	Software Testing	CO1	:	Acquire knowledge of Software testing.
		CO2	:	Gain knowledge in Quality assurance & control.
		CO3	:	Analyze the quality of the project .
PCSM213/	TCP / IP Networks	CO1	:	Understand the concepts of TCP/IP

PCSM309		CO2	:	Examine the process of TCP/IP
		CO3	:	Implement TCP/IP concepts in network
PCSM214	Biometrics	CO1	:	Understand biometric principles for identification, authentication, and access control systems.
		CO2	:	Apply biometric technologies for security applications, including fingerprint, iris, and face recognition.
		CO3	:	Develop skills in biometric system design, implementation, and evaluation for various domains
PCSR206/ PCSR304	Networking – Practical	CO1	:	Understand concepts in Network
		CO2	:	Apply programming skills in network
		CO3	:	Develop application in network
PCSR207	Biometrics Using Matlab- Practical	CO1	:	Master biometric identification techniques using MATLAB for analysis, modeling, and implementation.
		CO2	:	Apply MATLAB for processing biometric data, feature extraction, and recognition algorithms.
		CO3	:	Develop practical skills in designing and evaluating biometric systems using MATLAB tools.
PCSE205	Programming in J2EE	CO1	:	Master Java 2 Platform, Enterprise Edition for building scalable, secure web applications.
		CO2	:	Apply J2EE frameworks and technologies for server-side development and enterprise solutions.
		CO3	:	Develop skills in database connectivity, transaction management, and web services integration.
PCSE206	Mobile Computing Lab	CO1	:	Develop mobile applications for various platforms using appropriate development tools.
		CO2	:	Implement user interfaces, data management, and networking functionalities in mobile apps.
		CO3	:	Test and debug mobile applications to ensure functionality and performance on target devices.

COURSE OUTCOMES – 2018-2019

DEPARTMENT: COMPUTER APPLICATIONS

Course Code	Course Title	Course Outcome		
UCAM107/ UCSM106	Programming in C	CO1	:	Master C programming fundamentals for developing efficient and reliable software applications.
		CO2	:	Apply data structures, algorithms, and control structures in C programming projects.
		CO3	:	Develop debugging and problem-solving skills through practical programming exercises in C.
UCAM108/ UCSM108 UCAM109 UCSM109	Fundamental of Computer Science/ Advanced Computer Science	CO1	:	Understand foundational and advanced concepts in computer science for problem-solving.
		CO2	:	Apply algorithms, data structures, and programming paradigms in software development projects.
		CO3	:	Develop analytical and critical thinking skills through theoretical and practical computer science applications.
UCAR105/ UCSR108	Programming in C-Practical	CO1	:	Develop proficiency in C programming through practical exercises and projects.
		CO2	:	Apply concepts of control structures, functions, and arrays in C programs.
		CO3	:	Debug and test C programs to ensure correctness and efficiency in execution.
UMAA110	Mathematical Methods-I	CO1	:	Understand mathematical concepts essential for computer science applications and problem-solving.
		CO2	:	Apply calculus, linear algebra, and discrete mathematics in computer science problems.
		CO3	:	Develop analytical and quantitative reasoning skills through mathematical modeling and problem-solving exercises.
UCAM205/ UCSM206	Data Structures	CO1	:	Master data structure concepts, including arrays, linked lists, stacks, and queues.
		CO2	:	Apply data structures to efficiently store, retrieve, and manipulate data.
		CO3	:	Develop problem-solving skills through algorithmic thinking and implementation of data structures.
UCAR204/ UCSR205	Data Structures - Practical	CO1	:	Develop proficiency in implementing data structures through practical coding exercises.

		CO2	:	Apply data structures to solve real-world problems efficiently and effectively.
		CO3	:	Debug and optimize data structure implementations to enhance performance and scalability.
UMAA216	Mathematical Methods-II	CO1	:	Understand advanced mathematical methods like probability, statistics, and numerical analysis.
		CO2	:	Apply mathematical techniques to analyze and solve complex problems in computer science.
		CO3	:	Develop skills in mathematical modeling and simulation for practical computing applications.
UCAE207	Data Science using R	CO1	:	Master data science concepts and techniques using the R programming language.
		CO2	:	Apply R for data manipulation, visualization, statistical analysis, and machine learning.
		CO3	:	Develop skills in data cleaning, exploration, and modeling for practical data science tasks.
UCAE208	Cyber Forensics	CO1	:	Understand cybercrime investigation techniques, digital evidence collection, and forensic analysis methods.
		CO2	:	Apply forensic tools and methodologies to analyze digital devices and networks.
		CO3	:	Develop skills in identifying and mitigating cybersecurity threats through forensic analysis.
UCAE209	PyMOL	CO1	:	Master PyMOL software for visualizing and analyzing biomolecular structures and interactions.
		CO2	:	Apply PyMOL tools for molecular visualization, protein modeling, and structural analysis.
		CO3	:	Develop skills in creating high-quality images and animations for scientific presentations.
UCAE210	Qlick View	CO1	:	Master QlikView for data visualization, dashboard creation, and business intelligence analysis.
		CO2	:	Apply QlikView tools for data integration, transformation, and interactive reporting.
		CO3	:	Develop skills in designing intuitive dashboards and exploring data insights effectively.

COURSE OUTCOMES – 2018-2019

DEPARTMENT: PSYCHOLOGY

Course Code	Course Title	Course Outcome		
UPSM101	General Psychology I	CO1	:	Understand foundational psychological theories and concepts, illustrating their application in real-world scenarios.
		CO2	:	Analyze major research methods in psychology, evaluating their strengths and limitations in various contexts.
		CO3	:	Examine the biological basis of behavior, linking neural mechanisms to cognitive and emotional processes.
UPSM102	Developmental Psychology I	CO1	:	Understand key developmental theories and milestones from infancy to adolescence, highlighting growth patterns.
		CO2	:	Analyze cognitive, emotional, and social development stages, emphasizing influences on individual differences.
		CO3	:	Evaluate research methods in developmental psychology, assessing their application in studying human growth.
UPSM103	Social Psychology I	CO1	:	Understand foundational social psychology theories and concepts, applying them to real-world social interactions.
		CO2	:	Analyze the influence of group dynamics and social influence on individual behavior and attitudes.
		CO3	:	Evaluate research methods in social psychology, assessing their strengths and limitations in various contexts.
UPSM201	General Psychology II	CO1	:	Analyze advanced psychological theories and their applications in understanding complex human behaviors.
		CO2	:	Evaluate psychological research findings, emphasizing their implications for mental health and well-being.
		CO3	:	Explore the impact of environmental, genetic, and cultural factors on psychological processes and individual differences.
UPSM202	Developmental Psychology II	CO1	:	Understand advanced theories of development, focusing on adulthood and aging.

		CO2	:	Analyze cognitive and emotional changes in adulthood, relating to life transitions and aging.
		CO3	:	Evaluate research methodologies in adult development, applying findings to improve life quality in later years.
UPSM203	Social Psychology II	CO1	:	Understand complex social phenomena, examining the role of societal structures and cultural influences.
		CO2	:	Analyze the psychological underpinnings of prejudice, discrimination, and intergroup relations in various contexts.
		CO3	:	Evaluate advanced research methods in social psychology, applying them to contemporary social issues and interventions.
UPSE201	Psychology for Effective Living	CO1	:	Understand psychological principles for enhancing personal well-being and resilience in daily life.
		CO2	:	Apply stress management techniques and coping strategies to improve mental health and productivity.
		CO3	:	Evaluate the impact of positive psychology interventions on personal growth and life satisfaction.

DEPARTMENT: TAMIL

Course Code	Course Title	Course Outcome		
UTAM102	நன்னூல் - எழுத்து	CO1	:	நன்னூல் எழுத்ததிகாரத்தில் உள்ள இலக்கண அடிப்படைகளை அறிவர்.
		CO2	:	எழுத்தின் தோற்றம் வளர்ச்சி படிநிலைகளை திறனாய்ந்து தெரிந்து கொள்வர்.
		CO3	:	இலக்கணத்தின் படிநிலைகளை அறிந்து அன்றாட வாழ்வில் இலக்கணத்தினை பயன்படுத்தும் திறம் பெறுவர்.
UTAM106	தமிழக வரலாறும் பண்பாடும்	CO1	:	தமிழகத்தின் எல்லை மற்றும் அமைவிடத்தின் சிறப்புக்களை அறிவர்.
		CO2	:	வரலாறு பண்பாடு சார்ந்த தரவுகளை அறிந்து கொள்வர்.
		CO3	:	தமிழகத்தின் தனித்திறன்களை உணர்ந்து மாண்புகளை எடுத்துரைக்கும் காக்கும் திறன் பெறுவர்.
UTAM108	நவீன இலக்கியங்கள்	CO1	:	தமிழ் இலக்கியங்களில் நவீன இலக்கியத்தின் பங்களிப்பு குறித்து புரிந்து கொளவர்.
		CO2	:	நவீன இலக்கிய வகைமைகளாக கவிதை, சிறுகதை, நாவல், நாடகம் ஆகியவற்றின் தனித்தன்மைகளை பொருத்திப்பார்க்கும் திறன் பெறுவர்.
		CO3	:	நவீன இலக்கிய வகைமைகளை கற்றுத்தெளிந்து நவீன இலக்கியங்களை படைக்கும் மற்றும் திறனாயும் திறன் பெறுவர்.
UTAM109	மொழித்திறன்	CO1	:	இலக்கணப் பிழையில்லாமல் எழுதுவதற்கு விதிகளைக் கற்றுக்கொள்வர்.
		CO2	:	தமிழ்மொழியைப் பிழையின்றி எழுத அறிந்து கொள்வர்.
		CO3	:	தமிழ் எழுத்துகளின் ஒலி வேறுபாடுகளை அறிந்துகொள்வர்.

UTAL105	பொதுத்தமிழ்	CO1		இலக்கிய உலகில் தடம் பதித்த தற்காலக் கவிஞர்களை அறிந்துகொள்வர்.
		CO2		நடைமுறை இலக்கணத்தை எளிய முறையில் கற்றுக் கொள்வர்.
		CO3		தமிழ் இலக்கிய வரலாறு மற்றும் உரைநடை வளர்ச்சி நிலைகளை அறிந்துகொள்வர்.
UTAL106	சிறப்புத்தமிழ்	CO1		இலக்கிய உலகில் தடம் பதித்த தற்காலக் கவிஞர்களை அறிந்துகொள்வர்.
		CO2		நடைமுறை இலக்கணத்தை எளிய முறையில் கற்றுக் கொள்வர்.
		CO3		கட்டுரை, கவிதைப் படைத்தல், கவிதைத் திறனாய்வு போன்வற்றை கற்று கொள்வர்.
UTAM202	நன்னூல் - சொல்	CO1	:	சொல் அமைப்பு, சொல் உருவாக்கம், வகைகளை அறிந்து கொள்வர்.
		CO2	:	சொற்பிழை நீக்கல், சொற்றொடர் அமைப்பின் விதிகளை தெரிந்து கொள்வர்.
		CO3	:	இலக்கணத்தின் படிநிலைகளை அறிந்து அன்றாட வாழ்வில் இலக்கணத்தினை பயன்படுத்தும் திறம் பெறுவர்.
UTAM205	மொழி வரலாறு	CO1	:	தமிழின் தொன்மை, வடிவம் பற்றி அறிந்துகொள்வர்.
		CO2	:	மொழி இனங்கள் பற்றி தெரிந்துகொள்வர்.
		CO3	:	தமிழின் தொன்மை மற்றும் எழுத்துகளின் பல்வேறு நிலைகள் குறித்து அறிந்துகொள்வர்.
UTAM206	சிற்றிலக்கியங்கள்	CO1	:	தமிழிலுள்ள சிற்றிலக்கியங்களைப் பற்றி அறிந்து கொள்வர்.
		CO2	:	சிற்றிலக்கியங்களில் இடம்பெற்றுள்ள வாழ்வியல் நெறிகளை தெரிந்து கொள்வர்.
		CO3	:	சிற்றிலக்கிய வகைமைகளை கற்றுத்தெளிந்து கொள்வர்.
UTAR201	பயிற்சிப்	CO1	:	மாணவியர் படைப்புத்திறனை அறிந்து கொள்வர்.

	பட்டறை	CO2	:	ஆளுமைத்திறனை வளர்த்து சமூகத்தில் தன்னை நிலைநிறுத்திக் கொள்ள திறன்களை வளர்த்து கொள்வர்.
		CO3	:	சிறுகதை எழுதும் திறனை வளர்த்து கொள்வர்.
UTAL205/	பொதுத்தமிழ்	CO1	:	ஆன்மீக ஈடுபாட்டினையும், படைப்பாற்றலையும் வளர்த்துக் கொள்வர்.
		CO2	:	எளிய முறையில் இலக்கண அறிவைப் பெற்று கொள்வர்.
		CO3	:	இலக்கணத்தின் படிநிலைகளை அறிந்து அன்றாட வாழ்வில் இலக்கணத்தினை பயன்படுத்தும் திறம் பெறுவர்.
UTAL 206	சிறப்புத்தமிழ்	CO1	:	ஆன்மீக ஈடுபாட்டினையும், படைப்பாற்றலையும் வளர்த்துக் கொள்வர்.
		CO2	:	இலக்கண, இலக்கிய அறிவைப் பெற்றுக் கொள்வர்.
		CO3	:	நவீன இலக்கியங்களை படைக்கும் மற்றும் திறனாயும் திறன் பெறுவர்.
PTAM102	தொல்காப்பியம் - எழுத்ததிகாரம்	CO1	:	தமிழ் எழுத்துக்கள், பிறக்கும் முறை, எழுத்துக்கள் சொற்களாக அமையும் முறை ஆகியவற்றை அறிந்து கொள்வர்.
		CO2	:	இலக்கணப் பிழையின்றி எழுதத் தெரிந்து கொள்வர்.
		CO3	:	இலக்கணத்தின் படிநிலைகளை அறிந்து கொள்வர்.
PTAM104	தொல்லியல்	CO1	:	தொல் பழங்காலத்தை அறிந்து கொள்வர்.
		CO2	:	அரசாட்சி, மக்களின் பண்பாட்டு வாழ்வியல் நெறிகளை அறிந்து கொள்வர்.
		CO3	:	வரலாற்றுக்கு முற்பட்டக் காலத்தில் கற்காலம், உலோகக்காலம் பற்றி அறிந்து கொள்வர்.
PTAM107		CO1	:	இலக்கியங்களுக்கிடையேயான ஒருமைப்பாட்டை அறிந்து கொள்வர்
		CO2	:	ஒப்பியலக்கிய கோட்பாட்டு திறனாய்வுகளை

	ஒப்பிலக்கியம்			அறிந்துக்கொள்வர்
		CO3	:	தமிழ்இலக்கியங்களைப் பிற துறை இலக்கியத்தோடு ஒப்பீட்டு தெரிந்து கொள்வர்.
PTAM108	தமிழ் இலக்கிய சூழலில் பெண்ணியம	CO1	:	தமிழ் பெண்படைப்பாளர்களின் இலக்கியங்களை அறிந்துகொள்வர்.
		CO2	:	இலக்கியங்களில் காணப்படும் பெண்ணிய கருத்தாக்கங்களைத் தெரிந்துகொள்வர்.
		CO3	:	அரசின் பெண் முன்னேற்றச் செயல்பாடுகள் பற்றி அறிந்து கொள்வர்.
PTAM110	நவீன இலக்கியம்	CO1	:	தமிழில் உள்ள நவீன இலக்கியங்களை அறிந்து கொள்வர்.
		CO2	:	நவீன இலக்கியக் கோட்பாடுகளைப் பொருத்தி ஆராயவர்.
		CO3	:	நவீன படைப்பாக்கத்தை உருவாக்கும் திறனை வளர்த்துக் கொள்வர்.
PTAM203	தொல்காப்பியம் - சொல்லதிகாரம்	CO1	:	தமிழ் இலக்கணத்தில் சொற்களில் ஏற்படும் குற்றங்களை அறிந்து கொள்வர்.
		CO2	:	வாக்கியங்களை அமைக்கும் முறையினையம் சொற்களின் வகைகளையும் அறிந்து கொள்வர்.
		CO3	:	இலக்கணத்தின் படிநிலைகளை அறிந்து அன்றாட வாழ்வில் இலக்கணத்தினை பயன்படுத்தும் திறம் பெறுவர்.
PTAM209	திறனாய்வுக் கோட்பாடுகள்	CO1	:	உலகளாவியத் திறனாய்வுக் கோட்பாடுகளை அறிந்து கொள்வர்.
		CO2	:	கோட்பாடுகளை இலக்கியத்தோடு ஒப்பீட்டு திறனாய்வுச் செய்வர்.
		CO3	:	நவீன திறனாய்வு வகைமைகளை அறிந்து கொள்வர்
PTAM210		CO1	:	வாழ்வியல் நெறிகளை உணர்ந்து கொள்வர்.

	அற இலக்கியங்கள்	CO2	:	வாழ்வியல் நெறிகளை அறிந்து அற இலக்கியங்கள் வழி நல்வழிப்படுத்திக் கொள்வர்.
		CO3	:	பிற்கால அற நூல்கள் பற்றி அறிந்து கொள்வர்.
PTAM211	அகராதியியல்	CO1	:	அகராதி வரலாற்றினை அறிந்து கொள்வர்
		CO2	:	அகராதி உருவாக்கும் முயற்சிகளில் ஆர்வம் கொண்டு இருப்பர்.
		CO3	:	தமிழ் அகராதி வகைகள் மற்றும் வளர்ச்சி நிலைகள் குறித்து அறிந்து கொள்வர்.
PTAM212	காப்பியங்கள்	CO1	:	வரலாற்று நிகழ்வுகளைக் கண்டறிவதற்கும் புராணக் கருத்துக்களை அறிந்து கொள்வதற்குமான வழிமுறைகளை எடுரைக்கும் திறனைப் பெற்றுக் கொள்வர்.
		CO2	:	காப்பியங்களின் தொன்மையினையும் சிறப்புக் கூறுகளையும் கண்டறிந்து கொள்வர்.
		CO3	:	வரலாற்று நிகழ்வுகளைப் பற்றிய புரிதலைப் பெற்று கொள்வர்.
PTAE202	சுற்றுலாவியல்	CO1	:	சுற்றுலா இடங்களைப் பற்றி அறிந்துகொள்வர்.
		CO2	:	சுற்றுலாவின் பண்பாட்டு கலாச்சாரத்தினை தெரிந்து கொள்வர்.
		CO3	:	சுற்றுலா துறையில் பணி வாய்ப்பினை பெற்று கொள்வர்.
PTAX202	பயன்பாட்டுத் தமிழ்	CO1	:	பள்ளி மாணவர்கள் அடிப்படை இலக்கணம் கற்றுக் கொள்வர்.
		CO2	:	தவறில்லாமல் தமிழ்மொழியை எழுதவும் கற்கவும் பயிற்சி பெற்றுக் கொள்வர்.
		CO3	:	பிறமொழிச் சொற்களை நீக்கி எழுதும் திறனைப் பெற்றுக் கொள்வர்.