



Sardar Patel University Vallabh Vidyanagar

1.1.1 Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme Outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes (COs) of the programmes offered by the University

Program	MSc (Biochemistry)
POs	At the end of the program, the students will be able to: PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the problem.
PSOs	PO1 Biochemistry masters students will be able to comprehend fundamental Biochemistry principles underlying normal physiology and pathogenesis. PO2 They will develop proficiency in Biochemistry Laboratory experiments as well as theory. PO3 They will be able to translate their knowledge with a skilful job at various industries and research labs. PO4 The students will become employable in the fields of Quality Assurance, Production, Research and Teaching in Biopharmaceuticals, Nutraceuticals, Dairy, Agriculture, Environment, Clinical, Biotechnology and Life sciences.

Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

Course Code	Course Name	Curricula relevant to local, regional, national and global developmental needs			
		Local	Regional	National	Global
PS01CBIC21	Cell Biology and Genetics		✓	✓	✓
PS01CBIC22	Bioinstrumentation		✓	✓	✓
PS01CBIC23	Cellular Metabolism				
PS01CBIC24	Practicals				✓
PS01CBIC25	Practicals				✓
PS01EBIC21	Biochemistry of Horticultural commodities		✓	✓	✓
PS01EBIC22	Biomolecules and Bioenergetics				✓
PS01EBIC23	Phyto resources utilization and conservation	✓	✓	✓	✓
PS02CBIC21	Molecular Biology				✓
PS02CBIC22	Toxicology			✓	✓

PS02CBIC23	Fundamentals of Immunology				✓
PS02CBIC24	Practical				✓
PS02CBIC55	Practical				✓
PS02EBIC21	Biostatistics				✓
PS02EBIC22	Medical Biochemistry				✓
PS02EBIC23	Micro techniques				✓
PS03CBIC21	Human Physiology				✓
PS03CBIC22	Genetic Engineering				✓
PS03CBIC23	Enzymology				✓
PS03CBIC24	Practical-1				✓
PS03CBIC25	Practical-2				✓
PS03EBIC21	Advanced Immunology				✓
PS03EBIC22	Bioinformatics				✓
PS03EBIC23	Omics and Computational Biology				✓
PS03EBIC24	Plant Biochemistry			✓	✓
PS04CBIC21	Animal Biotechnology				✓
PS04CBIC22	Nutritional and Clinical Biochemistry				✓
PS04CBIC23	Practical I				✓
PS04EBIC21	Practical II				✓
PS04EBIC22	Dissertation	✓	✓	✓	✓
PS04EBIC24	Plant Biotechnology			✓	✓
PS04EBIC25	IPR and Biosafety			✓	✓
PS04EBIC26	Pharmacognosy				✓
PS04EBIC27	Endocrinology				✓

Program	MSc (Biotechnology)				
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POs	<p>At the end of the program, the students will be able to:</p> <p>PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject.</p> <p>PO2 Understand laboratory processes and use scientific equipment and work independently.</p> <p>PO3 Develop research temperament as a consequence of their theory and practical learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p> <p>PO6 The students are able to handle unexpected situations by critically analysing the problem.</p>				
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PSOs	<p>On successful completion of the Masters in Biotechnology course, the student will be able to:</p> <p>PSO1 Demonstrate an ability for in depth analytical and critical thinking to identify and solve problems related to Biotechnology in industry, medicine and Agriculture.</p> <p>PSO2 Comprehend and integrate theoretical and practical skills.</p> <p>PSO3 Demonstrate mastery in handling sophisticated laboratory equipment and their appropriate applications.</p> <p>PSO4 Become a professional suitable to be employed in industry as well as academic institutions.</p> <p>PSO5 Understand professional and ethical responsibility.</p>				
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Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

Course Code	Course Name	Curricula relevant to local, regional, national and global developmental needs			
		Local	Regional	National	Global

PS01CBIT21	Molecular Biology				✓
PS01CBIT22	Bioinstrumentation				✓
PS01CBIT23	Cell Biology				✓
PS01CBIT24	Practical				✓
PS01CBIT25	Practical				✓
PS01EBIT21	Biochemistry				✓
PS01EBIT22	Biomolecules and Bioenergetics				✓
PS01EBIT23	Phytoresource Utilization and Conservation		✓	✓	✓
PS01EBIT24	Human Physiology				✓
PS02CBIT21	Bioprocess and Biochemical Engineering			✓	✓
PS02CBIT22	Microbial Genetics				✓
PS02CBIT23	Fundamentals of Immunology				✓
PS02CBIT24	Practical				✓
PS02CBIT25	Practical				✓
PS02EBIT21	Biostatistics				✓
PS02EBIT22	Medical Microbiology				✓
PS02EBIT23	Microtechniques				✓
PS02EBIT24	Medical Biochemistry				✓
PS03CBIT21	Microbial Biotechnology				✓
PS03CBIT22	Genetic Engineering			✓	✓
PS03CBIT23	Enzymology				✓
PS03CBIT24	Practical – I				✓
PS03CBIT25	Practical – II				✓
PS03EBIT21	Advanced Immunology				✓
PS03EBIT22	Bioinformatics				✓
PS03EBIT23	Omics and Computational Biology			✓	✓
PS03EBIT24	Plant Biochemistry				✓
PS04CBIT21	Animal and Plant Biotechnology				✓
PS04CBIT22	Environmental Biotechnology			✓	✓
PS04CBIT23	Practical – I				✓
PS04EBIT21	Practical – II				✓
PS04EBIT22	Dissertation				✓
PS04EBIT23	Microbial Physiology				✓
PS04EBIT24	Food and Dairy Microbiology		✓	✓	✓
PS04EBIT25	IPR and Biosafety			✓	✓
PS04EBIT26	Pharmacognosy				✓
PS04EBIT27	Endocrinology				✓
Program	MSc (Biotechnology)				
POs	At the end of the program, the students will be able to: PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the problem.				
PSOs	On successful completion of the Masters in Biotechnology course, the student will be				

	able to: PSO1 Demonstrate an ability for in depth analytical and critical thinking to identify and solve problems related to Biotechnology in industry, medicine and Agriculture. PSO2 Comprehend and integrate theoretical and practical skills. PSO3 Demonstrate mastery in handling sophisticated laboratory equipment and their appropriate applications. PSO4 Become a professional suitable to be employed in industry as well as academic institutions. PSO5 Understand professional and ethical responsibility.				
PS01CIBT21	Molecular Biology				✓
PS01CIBT22	Genetic Engineering				✓
PS01CIBT23	Cellular Metabolism				✓
PS01CIBT24	Practicals				✓
PS01CIBT25	Practicals				✓
PS01EIBT21	Biostatistics				✓
PS02CIBT21	Bioprocess Technology				✓
PS02CIBT22	Animal and Plant Biotechnology			✓	✓
PS02CIBT23	Environmental Biotechnology				✓
PS02CIBT24	Practicals				✓
PS02CIBT25	Practicals				✓
PS02EIBT21	Bioinformatics				✓
PS02EIBT22	IPR and Biosafety				✓
PS03CIBT21	Immunotechnology				✓
PS03CIBT22	Downstream Processing			✓	✓
PS03CIBT23	Enzyme Technology and Enzyme Engineering				✓
PS03CIBT24	Practical – I				✓
PS03CIBT25	Practical – II				✓
PS03EIBT21	Biomanufacturing Principles and Practices				✓
PS03EIBT22	Metabolic Engineering				✓
PS04CIBT21	Dissertation			✓	✓
Program	MSc (Botany)				
POs	At the end of the program, the students will be able to: PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the problem.				
PSOs	PSO1 Students completing M.Sc. Botany course of four semesters will gain thorough knowledge and develop relevant practical skills on different areas of Botany, both the fundamental and traditional aspects as well as the advanced and application-oriented aspects such as plant structural and functional diversity and its role in human livelihood, ecological services and human influenced environmental issues. PSO2 Students will be equipped with the in-depth knowledge and analytical skills related to the evolution processes resulting the diversified plant groups, their morphological, anatomical, and physiological adaptations to different				

	<p>environmental conditions, plant interactions with microbes and insects, genetic makeup and inheritance of various levels of plants, cell and molecular biology of plants, horticultural crops, physiology, biochemistry, biotechnology, recombinant DNA technology, proteomics and transgenic technology.</p> <p>PSO2 Students will develop skills of plant explorations and identifications, herbarium preparation and preservation techniques, nursery establishment and management techniques, principles and methods of biodiversity conservation, microscopy and microtomy, reproduction, genetics, genetic structure of populations, microbiology, molecular biology, identification of various pests and diseases of crop plants and their controlling mechanisms, various analytical techniques.</p> <p>PSO3 Acquaintance with the use of bioinformatics tools and databases and application of statistics to biological data, biotechnological tools and techniques used for mass in vitro propagation, genetic transformation of plants, transgenic technology.</p> <p>PSO4 Training in experimental design and execution, first-hand experience on tools and techniques of research, quantitative and qualitative data analysis and interpretation of data. By presenting seminars in each semester, students will develop science communication and presentation skills.</p>
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PS01CBOT21	Cell and Molecular Biology				✓
PS01CBOT22	Bioinstrumentation				✓
PS01CBOT23	Genetics, Plant Breeding and Evolution				✓
PS01CBOT24	Practical				✓
PS01CBOT25	Practical				✓
PS01EBOT21	Biostatistics				✓
PS01EBOT22	Biomolecules and Bioenergetics				✓
PS02CBOT21	Biology and Diversity of Lower Plants		✓	✓	✓
PS02CBOT22	Taxonomy and Diversity of Seed Plants		✓	✓	✓
PS02CBOT23	Mycology and Plant Pathology				✓
PS02CBOT24	Practical				✓
PS02CBOT25	Practical				✓
PS02EBOT21	Microtechniques				✓
PS02EBOT22	Bioinformatics				✓
PS03CBOT21	Plant Development and Reproduction			✓	✓
PS03CBOT22	Plant Physiology				✓
PS03CBOT23	Environment and Ecological Principles			✓	✓
PS03CBOT24	Practical – I				✓
PS03CBOT25	Practical – II				✓
PS03EBOT21	Systematic Botany				✓
PS03EBOT22	Omics and Computational Biology				✓
PS04CBOT21	Plant Biotechnology				✓
PS04CBOT22	Biochemistry and Medical Botany				✓
PS04CBOT23	Practical – I				✓
PS04EBOT21	Practical-II				✓
PS04EBOT22	Dissertation		✓	✓	✓
PS04EBOT23	Phytoresource Utilization and conservation		✓	✓	✓
PS04EBOT24	Horticulture		✓	✓	✓
PS04EBOT25	IPR and Biosafety			✓	✓
Program	MSc (Microbiology)				
POs	At the end of the program, the students will be able to: PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject.				

	<p>PO2 Understand laboratory processes and use scientific equipment and work independently.</p> <p>PO3 Develop research temperament as a consequence of their theory and practical learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p> <p>PO6 The students are able to handle unexpected situations by critically analysing the problem.</p>
PSOs	<p>PSO1 Students completing the MSc degree programme in Microbiology which is a two year fulltime program will be able to understand and explain various areas related to microbiology subjects like molecular biology, recombinant DNA technology and immunology.</p> <p>PSO2 Students will be well versed with the concepts of aseptic handling techniques, maintenance and preservation of industrially as well as clinically important microbial cultures and correlate the molecular basis microbial physiology and ecology. The student will also be enlightened about application in different fields related to Microbial Technology.</p> <p>PSO3 Students will be able to design and establish a microbiology laboratory, they will be able to design the experiments related to basic microbiology, and perform biological assays using whole cells as well as enzymes and be able to identify microorganisms using biochemical as well as molecular identification techniques.</p> <p>PSO4 Students will be able to execute a short project involving the knowledge and techniques of basic and advanced microbiology, biochemistry, cell biology and bioprocess engineering. The student will be skilled enough to be employed as microbiologist in fermentation industry, clinical laboratory, research and development organization, food and drugs administration, etc or pursue doctoral studies in any field of Biological sciences</p>

Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

PS01CMIC21	Molecular Biology				✓
PS01CMIC22	Bioinstrumentation				✓
PS01CMIC23	Cell Biology				✓
PS01CMIC24	Practicals based on PS01CMIC21 and PS01CMIC22				✓
PS01CMIC25	Practicals based on PS01CMIC23 and PS01EMIC2X				✓
PS01EMIC21	Biochemistry				✓
PS01EMIC22	Biomolecules and Bioenergetics				✓
PS01EMIC23	Phytoresource Utilization and Conservation	✓	✓	✓	✓
PS01EMIC24	Human Physiology				✓
PS02CMIC21	Bioprocess and Biochemical Engineering				✓
PS02CMIC22	Microbial Genetics				✓
PS02CMIC23	Fundamentals of Immunology				✓
PS02CMIC24	Practicals based on PS02CMIC21 and PS02CMIC22				✓
PS02CMIC25	Practicals based on PS02CMIC23 and PS02EMIC2X				✓
PS02EMIC21	Biostatistics				✓
PS02EMIC22	Medical Microbiology				✓
PS02EMIC23	Microtechniques				✓
PS02EMIC24	Toxicology				✓

PS03CMIC21	Microbial Biotechnology				✓
PS03CMIC22	Environmental Microbiology				✓
PS03CMIC23	Enzymology				✓
PS03CMIC24	Practical – I				✓
PS03CMIC25	Practical – II				✓
PS03EMIC21	Advanced Immunology				✓
PS03EMIC22	Bioinformatics				✓
PS03EMIC23	Omics and Computational Biology				✓
PS03EMIC24	Plant Biochemistry				✓
PS04CMIC21	R-DNA Technology				✓
PS04CMIC22	Environmental Biotechnology				✓
PS04CMIC23	Practical – I				✓
PS04EMIC21	Practical – II				✓
PS04EMIC22	Dissertation		✓	✓	✓
PS04EMIC23	Microbial Physiology				✓
PS04EMIC24	Food and Dairy Microbiology			✓	✓
PS04EMIC25	IPR and Biosafety			✓	✓
PS04EMIC26	Plant Biotechnology				✓
Program	MSc (Zoology)				
POs	At the end of the program, the students will be able to: PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the problem.				
PSOs	Upon successful completion of Masters of Science in Zoology students will be able to: PO1 Develop an understanding to associate theoretical concepts and practical skills of Zoological Sciences in day-to-day life PO2 Gain the expertise in operating laboratory instruments with their basic mechanisms and applications PO3 Analyze critically, think holistically and apply the knowledge of various dimensions of Animal Sciences in teaching and research PO4 Correlate the impact of dynamics of ecology with evolution, embryology and development of specific behavior patterns in animals and humans PO5 Accomplish different specialized tasks devotedly suiting to the needs to wildlife conservation, industry, research laboratories and academic institutions				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PS01CZOO21	Evolutionary Biology and Biodiversity	✓	✓	✓	✓
PS01CZOO22	Bioinstrumentation				✓
PS01CZOO23	Cell Biology				✓
PS01CZOO24	Practicals based on PS01CZOO21 and PS01CZOO22				✓
PS01CZOO25	Practicals based on PS01CZOO23 and PS01EZOO2X				✓
PS01EZOO21	Biostatistics				✓
PS02CZOO21	Developmental Biology			✓	✓

PS02CZOO22	Toxicology				✓
PS02CZOO23	Fundamentals of Immunology				✓
PS02CZOO24	Practicals based on PS02CZOO21 and PS02CZOO22				✓
PS02CZOO25	Practicals based on PS02CZOO23 and PS02EZOO2X				✓
PS02EZOO21	Biological Chemistry				✓
PS03CZOO21	Human Physiology				✓
PS03CZOO22	Biology of Animal Behaviour				✓
PS03CZOO23	Aquaculture Technologies		✓	✓	✓
PS03CZOO24	Practical – I				✓
PS03CZOO25	Practical – II				✓
PS03EZOO21	Molecular Biology				✓
PS03EZOO22	Omics and Computational Biology			✓	✓
PS04CZOO21	Animal Biotechnology				✓
PS04CZOO22	Molecular and Applied Endocrinology				✓
PS04CZOO23	Practical – I				✓
PS04EZOO21	Practical – II				✓
PS04EZOO22	Dissertation				✓
PS04EZOO23	Nutritional and Clinical Biochemistry				✓
PS04EZOO24	Microtechniques				✓
Program	MSc (Chemistry)				
POs	At the end of the program, the students will be able to: PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the problem.				
PSOs	PSO1 Demonstrate and apply the fundamental knowledge of the basic principles in various fields of Chemistry. PSO2 Apply knowledge to build up small scale industry for developing endogenous product. Collaborate effectively on team-oriented projects in the field of chemistry or other related fields. PSO3 Communicate scientific information in a clear and concise manner both orally and in writing. PSO4 Inculcate logical thinking to address a problem and become result oriented with a positive attitude.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PS01CCHE21	Electron spectroscopy and Magneto chemistry				✓
PS01CCHE22	Organic Chemistry-I				✓
PS01CCHE23	Topics in Physical Chemistry-I				✓
PS01CCHE24	Practicals				✓
PS01CCHE25	Practicals				✓

PS01ECHE21	Biophysical Chemistry-I				✓
PS01ECHE22	Polymer Chemistry-I				✓
PS02CCHE21	Quantum Chemistry				✓
PS02CCHE22	Organic Chemistry-II				✓
PS02CCHE23	Topics in Physical Chemistry-II				✓
PS02CCHE24	Practicals				✓
PS02CCHE25	Practicals				✓
PS02ECHE21	Analytical Chemistry				✓
PS02ECHE22	Introduction to Biochemistry				✓
PS03CANC21	Spectroscopy - I				✓
PS03CANC22	Elements of Analytical Chemistry				✓
PS03CANC23	Classical and Thermal of Methods of Analysis				✓
PS03CANC24	Practicals				✓
PS03CANC25	Project Work				✓
PS03CANC26	Practicals				✓
PS03CANC27	Project Work				✓
PS03EANC21	Separation Methods				✓
PS03EANC22	Analytical techniques in Materials characterization				✓
PS03CINC21	Spectroscopy - I				✓
PS03CINC22	Nuclear Chemistry and Reaction Mechanism				✓
PS03CINC23	Organometallic Compounds				✓
PS03CINC24	Practicals				✓
PS03CINC25	Project Work				✓
PS03CINC26	Practicals				✓
PS03CINC27	Project Work				✓
PS03EINC21	Applications of Inorganic Chemistry in Industry				✓
PS03EINC22	Selected Topics in Advanced Inorganic Chemistry-I				✓
PS03CIPC21	Spectroscopy of Polymers				✓
PS03CIPC22	Manufacture Properties and Applications of Thermosets				✓
PS03CIPC23	Polymer Structure & Properties				✓
PS03CIPC24	Practicals				✓
PS03CIPC25	Project Work				✓
PS03CIPC26	Practicals				✓
PS03CIPC27	Project Work				✓
PS03EIPC21	Selected Topics in Polymers-I				✓
PS03EIPC22	Mechanical and Electrical Properties of Polymers				✓
PS03CORC21	Organic Spectroscopy				✓
PS03CORC22	Disconnection Approach				✓
PS03CORC23	Heterocyclic Chemistry				✓
PS03CORC24	Practicals				✓
PS03CORC25	Project Work				✓
PS03CORC26	Practicals				✓
PS03CORC27	Project Work				✓
PS03EORC21	Selected Topics in Organic Chemistry				✓
PS03EORC22	Occupational Practices				✓
PS03CPHC21	Molecular Spectroscopic Methods for				✓

	Structure Determination				
PS03CPHC22	Nuclear and Radiation Chemistry				✓
PS03CPHC23	Selected Topics in Physical Chemistry – I				✓
PS03CPHC24	Practicals				✓
PS03CPHC25	Project Work				✓
PS03CPHC26	Practicals				✓
PS03CPHC27	Project Work				✓
PS03EPhC21	Surface Chemistry and Catalysis				✓
PS03EPhC22	Advanced Characterization Techniques				✓
PS04CANC21	Spectroscopy - II				✓
PS04CANC22	Electro-Analytical Methods				✓
PS04CANC23	Analysis of Industrial Products				✓
PS04CANC24	Practicals				✓
PS04CANC25	Project Work				✓
PS04CANC26	Practicals				✓
PS04CANC27	Project Work				✓
PS04EANC21	Environmental Chemistry and Analysis				✓
PS04EANC22	Analysis of Pharmaceutical drugs				✓
PS04CINC21	Spectroscopy II				✓
PS04CINC22	Solid State Chemistry and Supra Molecular Chemistry				✓
PS04CINC23	Bioinorganic Chemistry				✓
PS04CINC24	Practical				✓
PS04CINC25	Project				✓
PS04CINC26	Practical				✓
PS04CINC27	Project				✓
PS04EINC21	Selected Topics in Advanced Inorganic Chemistry-II				✓
PS04EINC22	Inorganic Polymers and Inorganic Materials				✓
PS04CIPC21	Spectroscopy of Polymers-II				✓
PS04CIPC22	Manufacture Properties & Applications Of Thermoplastics				✓
PS04CIPC23	Processing of Polymers				✓
PS04CIPC24	Practical				✓
PS04CIPC25	Project Work				✓
PS04CIPC26	Practical				✓
PS04CIPC27	Project Work				✓
PS04EIPC21	Selected Topics in Polymers-II				✓
PS04EIPC22	Preparation, Production and Testing of Polymers				✓
PS04CORC21	Natural Products				✓
PS04CORC22	Medicinal Chemistry				✓
PS04CORC23	Stereochemistry of Organic Compounds				✓
PS04CORC24	Practical				✓
PS04CORC25	Project Work				✓
PS04CORC26	Practical				✓
PS04CORC27	Project Work				✓
PS04EORC21	Topics in Organic Chemistry				✓
PS04EORC22	Applied Organic Chemistry				✓
PS04CPHC21	Atomic Spectroscopy and Microscopic Techniques				✓

PS04CPHC22	Chemistry of Solid Materials				✓
PS04CPHC23	Electro-analytical Methods				✓
PS04CPHC24	Practicals: Polymer Synthesis by Various Techniques				✓
PS04CPHC25	Project work				✓
PS04CPHC26	Practicals: Polymer Characterization				✓
PS04CPHC27	Project work				✓
PS04EPHC21	Photochemistry and Energy Systems				✓
PS04EPHC22	Advanced Characterization Techniques-II				✓
Program	MCA				
POs	At the end of the program, the students will be able to: PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the problem.				
PSOs	PSO1 To prepare post-graduates for software industry, corporate sector, government organizations and academics by providing skill-based education in the core and emerging areas of computer applications. PSO2 The programme emphasizes on giving the students a sound background in theoretical and skill-oriented courses relevant to the latest trends in software development.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PS01FMCA21	Fundamentals of Mathematics and Accounting			✓	✓
PS01CMCA21	Computer Programming and Problem Solving				✓
PS01CMCA22	Logical Organization of Computers			✓	✓
PS01CMCA23	Database Management Systems- I			✓	✓
PS01CMCA24	Systems Analysis and Design			✓	✓
PS01CMCA25	Practicals				✓
PS02FMCA21	Statistical and Optimization Techniques			✓	✓
PS02CMCA21	Computer Networks – I				✓
PS02CMCA22	Data Structures and Advanced Programming Concepts				✓
PS02CMCA23	Database Management Systems – II				✓
PS02CMCA24	Operating System Principles				✓
PS02CMCA25	Practicals				✓
PS03CMCA21	Object Oriented Programming Using Java				✓
PS03CMCA22	The .NET Technology				✓
PS03CMCA23	Analysis and Design of Algorithms				✓
PS03CMCA24	System Software				✓
PS03CMCA25	Computer Networks-II				✓
PS03CMCA26	Practicals				✓

PS04CMCA21	The Linux Operating System				✓
PS04CMCA22	Compiler Design				✓
PS04CMCA23	Software Engineering				✓
PS04CMCA24	Web Application Development Technology				✓
PS04CMCA25	Practicals				✓
PS04EMCA21	Advanced Java Programming				✓
PS04EMCA22	Application Development for the Android Platform				✓
PS05EMCA21	Trends in Information and Communication Technology				✓
PS05EMCA22	Introduction to Data Science and Big Data				✓
PS05EMCA23	Web Application Frameworks				✓
PS05CMCA21	Artificial Intelligence				✓
PS05CMCA22	Distributed Systems, Parallel Computing and Simulation				✓
PS05CMCA23	Business Information Systems				✓
PS05CMCA24	Computer Graphics				✓
PS05CMCA25	Inhouse Project Work				✓
PS06CMCA21	Project Work				✓
Program	MSc (Information Technology)				
POs	<p>At the end of the program, the students will be able to</p> <p>PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject.</p> <p>PO2 Understand laboratory processes and use scientific equipments and work independently.</p> <p>PO3 Develop research temperament as a consequence of their theory and practical learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p> <p>PO6 The students are able to handle unexpected situations by critically analyzing the problem.</p>				
PSOs	<p>PSO1 Post-graduates equipped with knowledge and training necessary for software industry, corporate sector, government organizations and academics by providing skill-based education in the core and emerging areas of Information Technology.</p> <p>PSO2 The programme emphasizes on giving the students a sound background in theoretical and skill-oriented courses relevant to the latest trends in software development</p>				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PS01CINT21	Introduction to Theoretical Computer Science				✓
PS01CINT22	Advanced Programming Concepts & Data Structures				✓
PS01CINT23	RDBMS & Client Server Computing				✓
PS01CINT24	Operating System Concepts				✓
PS01CINT25	System Analysis and Design				✓
PS01CINT26	Practicals				✓
PS02EINT21	E-COMMERCE & M-COMMERCE			✓	✓
PS02EINT22	Trends in Information & Communication Technology (ICT)				✓

PS02CINT21	Modern MIS Techniques				✓
PS02CINT22	Software Engineering				✓
PS02CINT23	Visual Programming				✓
PS02CINT24	Web Programming				✓
PS02CINT25	Practicals				✓
PS03EINT21	Artificial Intelligence				✓
PS03EINT22	Data Mining & Data Warehousing				✓
PS03EINT23	Multimedia and Computer Graphics				✓
PS03EINT24	Mobile Application Development using Android and WinDev				✓
PS03CINT21	Java Programming				✓
PS03CINT22	Data Communication and Networking				✓
PS03CINT23	Information Security				✓
PS03CINT24	Distributed Application Development Technology				✓
PS03CINT25	Practicals				✓
PS04CINT21	Project Work				✓
Program	PG Diploma in Computer Applications				
POs	At the end of the program, the students will be able to PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the problem.				
PSOs	The objective of the PGDCA programme is to prepare students for a career in IT support as well as software development by training them in the core and emerging areas of computer applications to satisfy the needs of the society, industry, academic institutions and government.				
PS01CDCA21	PC Software				✓
PS01CDCA22	C and Data Structure				✓
PS01CDCA23	Logical Organization of Computer				✓
PS01CDCA24	Network Fundamentals				✓
PS01CDCA25	System Analysis and Design				✓
PS01CDCA26	Practicals based on PS01CDCA21 to PS01CDCA25				✓
PS02CDCA21	Operating Systems				✓
PS02CDCA22	Database Management Systems				✓
PS02CDCA23	Object Technology				✓
PS02CDCA24	Visual Programming				✓
PS02CDCA25	Internet and Web Designing				✓
PS02CDCA26	Practicals based on PS02CDCA21 to PS02CDCA25				✓
Program	MSc (Electronics)				
POs	At the end of the program, the students will be able to PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work				

	<p>independently.</p> <p>PO3 Develop research temperament as a consequence of their theory and practical learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p> <p>PO6 The students are able to handle unexpected situations by critically analyzing the problem.</p>
PSOs	<p>PO1 The course begins with the foundation concepts of core electronics allied fields</p> <p>PO2 The curriculum is designed to train the students in basic and advanced areas of Electronics by Keeping in mind the latest advances in the field.</p> <p>PO3 The purpose of this course is to inculcate skills that are relevant for industry and cater to the requirements of the R & D Department and Industry.</p> <p>PO4 This M.Sc. Program enables student to develop Speaking Presentation skills, they are encouraged to deliver seminars on a wide range of topics covering the different areas of Electronics.</p>

Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

PS01CELE21	Semiconductor Science and Devices				✓
PS01CELE22	Applications of ICs And Fuzzy Electronics				✓
PS01CELE23	Microprocessor & Microcontroller Systems				✓
PS01EELE21	Analytical and Bio Medical Instruments				✓
PS01EELE22	Network Analysis				✓
PS01CELE24	Practical				✓
PS01CELE25	Project Work				✓
PS02CELE21	Electromagnetism and Antenna Theory				✓
PS02CELE22	Microprocessor and Real Time Systems				✓
PS02CELE23	Programming in C / C++				✓
PS02EELE21	Industrial Electronics				✓
PS02EELE22	Advanced Electronic Science & Devices				✓
PS02CELE24	Practical				✓
PS02CELE25	Project Work				✓
PS03CELE21	Principles of Control Systems				✓
PS03CELE22	Digital & Microwave Communication Systems				✓
PS03CELE23	Computer Hardware and Networking				✓
PS03EELE21	Thin Film Technology				✓
PS03EELE22	Digital Signal Processing				✓
PS03ELE23	ARM Programming & Embedded Communication Protocols				✓
PS03CELE24	Practical				✓
PS03CELE25	Project Work				✓
PS04CELE21	IC Fabrication Technology				✓
PS04CELE22	Fibre Optics & its Application				✓
PS04CELE23	Sensor Technology				✓
PS04EELE21	Design Of VLSI Systems				✓
PS04EELE22	Computer Based Industrial Control				✓
PS04EELE23	Principles Of Nanoelectronics				✓
PS04ELEL24	Advanced Digital Systems Design With HDL				✓

PS04ELEL25	CMOS Technology & VLSI Design				✓
PS04CELE24	Practical				✓
PS04CELE25	Project Work				✓
Program	MSc (Materials Science)				
POs	At the end of the program, the students will be able to PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipments and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analyzing the problem.				
PSOs	PSO1 Strengthening knowledge on the fundamental aspects of materials science PSO2 Acquire knowledge on the properties of different types of materials PSO3 Get acquainted with different experimental and technical methods used for the characterization of materials PSO4 the area of applications where different tailor made materials can be used.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PS01CMTS21	Basic Concepts in Materials Science			✓	✓
PS01CMTS22	Interfacial Aspects of Materials Science			✓	✓
PS01CMTS23	Thin Film Materials			✓	✓
PS01CMTS24	Polymer Science			✓	✓
PS01CMTS25	Practicals I			✓	✓
PS01CMTS26	Practicals II			✓	✓
PS02CMTS21	Semiconducting and Superconducting Materials			✓	✓
PS02CMTS22	Spectroscopy			✓	✓
PS02CMTS23	Microstructure Control and Metallic Processing			✓	✓
PS02CMTS24	Practicals I			✓	✓
PS02CMTS25	Practicals II			✓	✓
PS02EMTS21	Defect Structures and properties of Materials			✓	✓
PS02EMTS22	Solar Energy			✓	✓
PS03CMTS21	Glass, Ceramic and Carbon Materials			✓	✓
PS03CMTS22	Fibers, Plastics and Elastomers			✓	✓
PS03CMTS23	Modern Characterization Techniques			✓	✓
PS03EMTS21	Composite Materials			✓	✓
PS03EMTS22	Testing Methods for films and rubbers			✓	✓
PS03CMTS24	Practicals I			✓	✓
PS03CMTS25	Practicals II			✓	✓
PS04CMTS21	Engineering Polymers			✓	✓
PS04CMTS22	Selected Topics in Nanoscience and Nanotechnology			✓	✓
PS04CMTS23	Optical, Magnetic and Dielectric Properties of Materials			✓	✓
PS04EMTS21	Materials and Environment			✓	✓
PS04EMTS22	Ceramic Technology			✓	✓

PS04CMTS24	PROJECT WORK			✓	✓
Program	MSc (Nano Science & Nano Technology)				
POs	At the end of the program, the students will be able to PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipments and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the problem.				
PSOs	PSO1 Strengthen knowledge on the fundamental aspects of materials science and nanoscience PSO2 Acquire knowledge on the properties of different types of nanomaterials PSO3 Get acquainted with different experimental and technical methods used for the characterization of nanomaterials PSO4 Acquaintance with the areas of applications where different tailor-made nanomaterials can be used.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PS01CNST21	Fundamental Materials Science			✓	✓
PS01CNST22	Interfaces and Adhesion in Materials			✓	✓
PS01CNST23	Basic aspects of Vacuum Technology and Thin films			✓	✓
PS01CNST24	Basic Concepts in Polymer Science			✓	✓
PS01CNST25	Practicals I			✓	✓
PS01CNST26	Practicals II			✓	✓
PS02CNST21	Electrical Properties of Nano materials			✓	✓
PS02CNST22	Spectroscopy			✓	✓
PS02CNST23	Nanostructures and Metallic Materials			✓	✓
PS02CNST24	Practicals I			✓	✓
PS02CNST25	Practicals II			✓	✓
PS02ENST21	Selected topics in Nano-Materials			✓	✓
PS02ENST22	Engineering Polymers and Nanocomposites			✓	✓
PS03CNST21	GLASS CERAMICS AND NANOSTRUCTURED MATERIALS			✓	✓
PS03CNST22	Special Purpose Polymers			✓	✓
PS03CNST23	Modern Characterisation Techniques			✓	✓
PS03ENST21	Nanomaterials and Environment			✓	✓
PS03ENST22	Composite Materials			✓	✓
PS03CNST24	Practicals I			✓	✓
PS03CNST25	Practicals II			✓	✓
PS04CNST21	PROJECT WORK			✓	✓
Program	MSc (Mathematics)				
POs	PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical				

	<p>learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p> <p>PO6 The students are able to handle unexpected situations by critically analysing the problem.</p>
PSOs	<p>PSO1 Understand the basic concepts of algebra, analysis, computational methods, optimization, differential equations and their importance as an abstract phenomenon and also some real- world problems.</p> <p>PSO2 Analyse and solve the well-defined problems. Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving variety of problems.</p> <p>PSO3 Compete the world through their ability of creative and critical thinking which is developed and built through seminars and problem-solving sessions.</p> <p>PSO4 Handle the advanced techniques in algebra, analysis, computational methods, optimization, differential equations to analyse and design algorithms for solving variety of problems</p> <p>PSO5 Learn and prepare mathematical algorithms, select and apply appropriate methods, resources and computing tools such as Excel, MATLAB, Python, etc.</p> <p>PSO6 Communicate effectively about their mathematical abilities on the activities, with their peers and society at large.</p> <p>PSO7 Select, interpret and critically evaluate information from a range of sources that include books, scientific reports, journals, etc.</p> <p>PSO8 Apply the knowledge of Mathematics in all the fields of learning including higher research and extensions. Recognize the need to engage in lifelong learning through continuous education, and research leading to higher degrees like Ph. D.</p>

Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

PS01CMTH21	Complex Analysis I				✓
PS01CMTH22	Topology I				✓
PS01CMTH23	Functions of Several Real Variables				✓
PS01CMTH24	Linear Algebra				✓
PS01CMTH25	Methods of Differential Equations				✓
PS01EMTH21	Graph Theory I				✓
PS01EMTH22	Mathematical Classical Mechanics				✓
PS01EMTH23	Number Theory				✓
PS01EMTH24	C Programming and Mathematical Algorithms I				✓
PS02CMTH21	Real Analysis I				✓
PS02CMTH22	Algebra I				✓
PS02CMTH23	Differential Geometry				✓
PS02CMTH24	Functional Analysis I				✓
PS02CMTH25	Methods of Partial Differential Equations				✓
PS02EMTH21	Graph Theory I				✓
PS02EMTH22	Mathematical Classical Mechanics				✓
PS02EMTH23	Number Theory				✓
PS02EMTH24	C Programming and Mathematical Algorithms I				✓
PS03CMTH21	Real Analysis II				✓
PS03CMTH22	Mathematical Methods I				✓
PS03CMTH23	Functional Analysis II				✓
PS03EMTH21	Banach Algebras				✓
PS03EMTH22	Computer Programming and Software				✓

PS03EMTH23	Financial Mathematics I				✓
PS03EMTH24	Graph Theory I				✓
PS03EMTH25	Graph Theory II				✓
PS03EMTH26	Group Theory				✓
PS03EMTH27	Mathematical Probability Theory				✓
PS03EMTH28	Number Theory and Cryptography				✓
PS03EMTH29	Operations Research				✓
PS03EMTH30	Problems and Exercises in Mathematics I				✓
PS03EMTH31	Relativity I				✓
PS03EMTH32	Topology II				✓
PS04CMTH21	Complex Analysis II				✓
PS04CMTH22	Mathematical Methods II				✓
PS04EMTH21	Banach Algebras				✓
PS04EMTH22	Computer Programming and Software				✓
PS04EMTH23	Financial Mathematics I				✓
PS04EMTH24	Financial Mathematics II				✓
PS04EMTH25	Graph Theory I				✓
PS04EMTH26	Graph Theory II				✓
PS04EMTH27	Group Theory				✓
PS04EMTH28	Mathematical Probability Theory				✓
PS04EMTH29	Number Theory and Cryptography				✓
PS04EMTH30	Operations Research				✓
PS04EMTH31	Operator Theory				✓
PS04EMTH32	Problems & Exercises in Mathematics II				✓
PS04EMTH33	Relativity I				✓
PS04EMTH34	Relativity II				✓
PS04EMTH35	Topology II				✓
Program	MSc (Physics)				
POs	At the end of the program, the students will be able to PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analyzing the problem.				
PSOs	PO1 An in-depth Understanding of the fundamental concepts and principles of Physics that enable them to apply in R & D Projects. PO2 Analytical and logical skills towards higher learning. PO3 Practical knowledge in Experimental designs and methods of data collection. PO4 Ability to analyze and interpret both the experimental and theoretical data. PO5 Confidence to take up scientific challenges. PO6 Capability for reflecting on central, ethical and scientific problems related to own work. PO7 A scientific curiosity and respect for scientific values				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					

PS01CPHY21	Mathematical Physics				✓
PS01CPHY22	Atomic & Molecular spectroscopy and Statistical Mechanics				✓
PS01CPHY23	Analog and Digital Electronics				✓
PS01CPHY24	Practical-I				✓
PS01CPHY25	Practical-II				✓
PS01EPHY21	Elements of Solid State Physics and Error Analysis				✓
PS01EPHY22	Non-Linear Dynamics, Relativity & Cosmology				✓
PS02CPHY21	Classical And Quantum Mechanics				✓
PS02CPHY22	Theoretical Condensed Matter Physics				✓
PS02CPHY23	Electrodynamics				✓
PS02CPHY24	Practical-I				✓
PS02CPHY25	Practical-II				✓
PS02EPHY21	Elements of Experimental Physics				✓
PS02EPHY22	Solid State Electronics Devices & Solar Cells				✓
PS03CPHY21	Advanced Quantum Mechanics				✓
PS03CPHY22	Nanoscience and Thin-Film Physics				✓
PS03EPHY21	Crystallography and Materials Science				✓
PS03EPHY22	Magnetic and Optical Properties of Condensed Matter				✓
PS03EPHY23	Microwave Communication: Electronics and Technology				✓
PS03EPHY24	Microprocessors: Programming, Interfacing and Applications				✓
PS03EPHY25	Theoretical Physics – I				✓
PS03EPHY26	Computational Physics – I				✓
PS03EPHY27	Solar Energy & Geothermal Energy				✓
PS03EPHY28	Wind Energy & Ocean Energy				✓
PS03EPHY29	Practical – I				✓
PS03EPHY30	Practical – II				✓
PS03EPHY31	Practical – I				✓
PS03EPHY32	Practical – II				✓
PS03EPHY33	Practical – I				✓
PS03EPHY34	Practical – II				✓
PS03EPHY35	Practical – I				✓
PS03EPHY36	Practical – II				✓
PS04CPHY21	Nuclear & Particle Physics				✓
PS04CPHY22	Advanced Experimental & Characterization Techniques				✓
PS04EPHY21	Applied Crystallography and Bio – Physics				✓
PS04EPHY22	Crystal Growth and Imperfections in Solids				✓
PS04EPHY23	Signal Processing and Satellite Communication				✓
PS04EPHY24	Advanced Solid State Electronic Devices				✓
PS04EPHY25	Theoretical Physics – II				✓
PS04EPHY26	Computational Physics – II				✓
PS04EPHY27	Bio – Mass & Other System, Energy				✓

	Storage				
PS04EPHY28	Nuclear Energy & Energy Strategies				✓
PS04EPHY29	Practical – I				✓
PS04EPHY30	Practical – II				✓
PS04EPHY31	Practical – I				✓
PS04EPHY32	Practical – II				✓
PS04EPHY33	Practical – I				✓
PS04EPHY34	Practical – II				✓
PS04EPHY35	Practical – I				✓
PS04EPHY36	Practical – II				✓
Program	MSc (Statistics)				
POs	<p>At the end of the program, the students will be able to</p> <p>PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject.</p> <p>PO2 Understand laboratory processes and use scientific equipment and work independently.</p> <p>PO3 Develop research temperament as a consequence of their theory and practical learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p> <p>PO6 The students are able to handle unexpected situations by critically analyzing the problem.</p>				
PSOs					
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PS01CSTA21	Probability Theory				✓
PS01CSTA22	Matrix Algebra				✓
PS01CSTA23	Distribution Theory				✓
PS01CSTA24	Statistical Inference I				✓
PS01CSTA25	Practicals				✓
PS01ESTA21	Statistical Computing through C++				✓
PS01ESTA22	Statistical Computing through R				✓
PS02CSTA21	Stochastic Processes				✓
PS02CSTA22	Linear Models and Regression Analysis.				✓
PS02CSTA23	Statistical Inference II				✓
PS02CSTA24	Theory of Sample Surveys				✓
PS02CSTA25	Practicals				✓
PS02ESTA21	Official Statistics				✓
PS02ESTA22	Operations Research				✓
PS03CSTA21	Design of Experiments				✓
PS03CSTA22	Multivariate Analysis				✓
PS03CSTA23	Practicals				✓
PS03CSTA24	Practicals.				✓
PS03ESTA21	Reliability and Life Testing				✓
PS03ESTA22	Generalized Linear Models				✓
PS04CSTA21	Computer Oriented Statistical Methods				✓
PS04CSTA22	Statistical Quality Control Techniques				✓
PS04CSTA23	Practicals				✓
PS04CSTA24	Project				✓
PS04ESTA21	Econometrics				✓
PS04ESTA22	Actuarial Statistics				✓

PS04ESTA23	Bioassays				✓
PS04ESTA24	Clinical Trials				✓
Program	MSc (Applied Statistics)				
POs	<p>At the end of the program, the students will be able to</p> <p>PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject.</p> <p>PO2 Understand laboratory processes and use scientific equipment and work independently.</p> <p>PO3 Develop research temperament as a consequence of their theory and practical learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p> <p>PO6 The students are able to handle unexpected situations by critically analyzing the problem.</p>				
PSOs					
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PS01CAST21	Statistical Distributions and their applications				✓
PS01CAST22	Marketing Research.				✓
PS01CAST23	Operations Research-I				✓
PS01CAST24	Data Base Management Systems				✓
PS01CAST25	Practical -I				✓
PS01EAST21	Statistical Computing through C++				✓
PS01EAST22	Statistical Computing through R				✓
PS02CAST21	Parametric Inference and Nonparametric Inference				✓
PS02CAST22	Linear Models and Regression Analysis.				✓
PS02CAST23	Statistical Quality Control and Reliability				✓
PS02CAST24	Statistical Methods through SPSS				✓
PS02CAST25	Practicals (Based on Minitab)				✓
PS02EAST21	Lean Six Sigma Methodology				✓
PS02EAST22	Official Statistics				✓
PS03CAST21	Knowledge Discovery and Data Mining				✓
PS03CAST22	Operations Research II				✓
PS03CAST23	Practicals				✓
PS03CAST24	Practicals				✓
PS03EAST21	Planning and Analysis of Industrial Experiments				✓
PS03EAST22	Generalized Linear Models				✓
PS03EAST23	Survival Analysis				✓
PS04CAST21	Computer Oriented Statistical Methods				✓
PS04CAST22	Practicals				✓
PS04CAST23	Project				✓
PS04EAST21	Clinical Trials				✓
PS04EAST22	Econometrics				✓
Program	MSc (Quality and Productivity Management)				
POs	<p>PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject.</p> <p>PO2 Understand laboratory processes and use scientific equipment and work</p>				

	<p>independently.</p> <p>PO3 Develop research temperament as a consequence of their theory and practical learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p> <p>PO6 The students are able to handle unexpected situations by critically analyzing the problem.</p>				
PSOs					
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PS01CQPM21	Business Statistics and Information Systems				✓
PS01CQPM22	Data Base Management Systems				✓
PS01CQPM23	Marketing Research				✓
PS01CQPM24	Management of Productivity				✓
PS01CQPM25	Operations Research – I				✓
PS01CQPM26	Practical based on QP 101 to 105				✓
PS02CQPM21	Statistical Quality Control and Reliability				✓
PS02CQPM22	Lean Six Sigma Methodology				✓
PS02CQPM23	Quality Management Systems				✓
PS02CQPM24	Fundamental of HRM, TQHRM and Supply chain Management				✓
PS02CQPM25	Statistical Methods through SPSS				✓
PS02CQPM26	Practical Based on Minitab				✓
PS03CQPM21	Total Quality Management				✓
PS03CQPM22	Knowledge Discovery and Data Mining				✓
PS03CQPM23	Operations Research – II				✓
PS03CQPM24	Design of experiments				✓
PS03CQPM25	Practical based on QP 303				✓
PS03CQPM26	Practical Based on QP 302 and QP 304				✓
PS04CQPM21	Project evaluation				✓
PS04CQPM22	Project Viva Voce				✓
Program	MSc (Biomedical Science)				
POs	<p>At the end of the program, the students will be able to</p> <p>PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject.</p> <p>PO2 Understand laboratory processes and use scientific equipment and work independently.</p> <p>PO3 Develop research temperament as a consequence of their theory and practical learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p> <p>PO6 The students are able to handle unexpected situations by critically analyzing the problem.</p>				
PSOs	<p>After completion of the program students can apply their expertise in laboratory work, as experts and consultant in research, education and management of health care industry, laboratories that deal with diagnosis, prevention and control of infectious and communication diseases, food testing laboratories, appear for CSIR-UGC NET (JRF& Lectureship) and industries based on pharmaceutical and biotechnology.</p>				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by					

clicking on the respective Course Name					
PT01CBMC21	Cell and Molecular biology				✓
PT01CBMC22	Instrumentation				✓
PT01CBMC23	Enzymologist				✓
PT01CBMC24	Practical based on PT01CBMC21 and PT01CBMC22				✓
PT01CBMC25	Practical based on PT01CBMC23 and PT01EBMC21				✓
PT01EBMC21	Human Physiology				✓
PT01EBMC22	Biomolecules and Bioenergetics				✓
PT01EBMC23	Biostatistics and Bioinformatics				✓
PT02CBMC21	Medical Microbiology				✓
PT02CBMC22	Biomaterial and Tissue Engineering				✓
PT02CBMC23	Immunology				✓
PT02CBMC24	Practical based on PT02CBMC21 and PT02CBMC22				✓
PT02CBMC25	Practical based on PT02CBMC23 and PT02EBMC21				✓
PT02EBMC21	Molecular Medicine				✓
PT02EBMC22	Clinical and applied Physiology				✓
PT02EBMC23	Biosafety and Biomedical waste Management				✓
PT03CBMC21	Genetic Engineering				✓
PT03CBMC22	Clinical Biochemistry				✓
PT03CBMC23	Nanotechnology and its Applications in Biomedical Science				✓
PT03CBMC24	Practical based on PT03CBMC21 and PT03CBMC22				✓
PT03CBMC25	Practical based on PT03CBMC23 and PT03EBMC21				✓
PT03EBMC21	Clinical Pharmacology & Toxicology				✓
PT03EBMC22	Biosafety and IPR				✓
PT03EBMC23	Methods in biology				✓
PT04CBMC21	Molecular Diagnostic Techniques				✓
PT04CBMC22	Medical Imaging Techniques				✓
PT04CBMC23	Animal Cell Culture and Gene Therapy				✓
PT04CBMC24	Project Work				✓
PT04CBMC26	Practical based on PT04CBMC21 and PT04CBMC22				✓
PT04EBMC21	Developmental Biology				✓
PT04EBMC22	Omics and Computational Biology				✓
PT04EBMC23	Biodynamics				✓
Program	MSc (Defense Science)				
POs	<p>At the end of the program, the students will be able to</p> <p>PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject.</p> <p>PO2 Understand laboratory processes and use scientific equipment and work independently.</p> <p>PO3 Develop research temperament as a consequence of their theory and practical learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p>				

	PO6 The students are able to handle unexpected situations by critically analyzing the problem.
PSOs	<p>PSO1 The Master's programme on Defence Science offered in this department aims to produce competent PG students with knowledge, skills and experience so as to enable them to become successful professionals in Defence Sciences.</p> <p>PSO2 The programme will ensure that the students develop the ability to critically evaluate, choose and use various techniques and tools.</p> <p>PSO3 Extensive practical training imparted will result in the students acquiring transferable skill set and make them suitable for employment and further research opportunities.</p> <p>PSO4 Research career in national laboratories under defence research and development organization, industries based on alloys, electronics, devices, sensors, propellants, explosives and materials of defence interest.</p>

Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

PT01CDSC01	Elements of Physical Sciences				✓
PT01CDSC02	Elements of Chemical Sciences				✓
PT01CDSC03	Elements of Biological Sciences				✓
PT01CDSC04	Mathematical and Statistical Tools for Applied Science I				✓
PT01CDSC05	Practicals in Physical, Chemical and Biological Sciences				✓
PT01EDSC01	Thermodynamics, Phase Equilibria and Properties of Matter				✓
PT01EDSC02	Quantitation of Biological Molecules & Introduction to Laboratory Medicine				✓
PT01EDSC03	Planet Earth and its Subsystems				✓
PT02CDSC01	Synthesis and Properties of Materials				✓
PT02CDSC02	Instrumentation				✓
PT02CDSC03	Characterization Techniques				✓
PT02CDSC04	Experimental Methods-I				✓
PT02CDSC05	Experimental Methods-II				✓
PT02EDSC01	Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM)				✓
PT02EDSC02	Environmental Science, Health & Safety				✓
PT02EDSC03	System Physiology				✓
PT03CDSC01	Chemical Science				✓
PT03CDSC02	Physical Science				✓
PT03CDSC03	Polymer Science				✓
PT03CDSC04	Experimental Methods- III				✓
PT03CDSC05	Experimental Methods- IV				✓
PT03EDSC01	Nano Science and Materials				✓
PT03EDSC02	Physical Characterization of Advanced Materials				✓
PT04CDSC01	Sensors and Devices				✓
PT04CDSC02	Antenna Systems and Radars			✓	✓
PT04CDSC03	Composite Materials and Its Applications to Defence needs			✓	✓
PT04CDSC04	Project Work				✓
PT04CDSC06	Experimental Methods-V				✓
PT04EDSC01	Robotics and Manufacturing Systems				✓
PT04EDSC02	Automation and Control				✓

Program	MSc (Earth Science)				
POs	At the end of the program, the students will be able to PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the problem.				
PSOs	PSO1 Competent Post-Graduate students with knowledge, skills and experience so as to enable them to become successful professionals in Earth Sciences. PSO2 Students develop the ability to critically evaluate, choose and use various techniques and tools. Extensive practical training imparted will result in the students acquiring transferable skill set and make them suitable for employment and further research opportunities. PSO3 Career as research scientist in academic, public or private institutions in diverse array of fields including environmental policy and planning, environmental consulting, air quality monitoring and assessment, laboratory analysis, natural resources management, wild life management, conservation and environment protection, water resource management.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PT01CESC01	Elements of Physical Sciences				✓
PT01CESC02	Elements of Chemical Sciences				✓
PT01CESC03	Elements of Biological Sciences				✓
PT01CESC04	Mathematical and Statistical Tools for Applied Science I				✓
PT01CESC05	Practical in Physical, Chemical and Biological Sciences				✓
PT01EESC01	Planet Earth and its Subsystems				✓
PT01EESC02	Quantitation of Biological Molecules & Introduction to Laboratory Medicine				✓
PT01EESC03	Thermodynamics, Phase Equilibria and Properties of Matter				✓
PT02CESC01	Synthesis and Properties of Materials				✓
PT02CESC02	Instrumentation				✓
PT02CESC03	Characterization Techniques				✓
PT02CESC04	Experimental Methods-I				✓
PT02CESC05	Experimental Methods-II				✓
PT02EESC01	Earth Materials, Surface Features and Interior Processes				✓
PT02EESC02	Environmental Science, Health & Safety				✓
PT02EESC03	System Physiology				✓
PT02EESC04	Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM)				✓
PT03CESC01	Geophysics				✓
PT03CESC02	Geochemistry				✓
PT03CESC03	Climate Dynamics and Earth System Interactions				✓

PT03CESC04	Experimental Methods- III				✓
PT03CESC05	Experimental Methods- IV				✓
PT03EESC01	Remote Sensing, GPS, Earth Resources and Future Energy Options			✓	✓
PT03EESC02	Geo-Informatics, GPS, Natural and manmade Hazards and Global warming			✓	✓
PT04CESC01	Meteorology			✓	✓
PT04CESC02	Oceanography			✓	✓
PT04CESC03	Physical Geography			✓	✓
PT04CESC04	Project Work				✓
PT04CESC05	Experimental Methods- V				✓
PT04EESC01	Advanced Geophysics				✓
PT04EESC02	Advanced Geochemistry				✓
Program	MSc (Bioinformatics)				
POs	PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analyzing the problem.				
PSOs	After completion of the program, students can apply their expertise in molecular design, drug discovery, genome sequencing, docking studies, database design and maintenance, proteomics, pharmacology, pharmacogenomics, clinical pharmacologist, informatics developer and computational chemist. It will enhance employability in institutions, industries and research centres in the health care sector.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PT01CBIC01	Fundamentals of Biology				✓
PT01CBIC02	Molecular Biology & Recombinant rDNA Technology				✓
PT01CBIC03	IT Fundamentals				✓
PT01CBIC04	Experimental Methods-I				✓
PT01CBIC05	Experimental Methods-II				✓
PT01EBIC01	Biocomputing Fundamentals				✓
PT01EBIC02	Foundation of Biochemistry and Molecular Biology				✓
PT02CBIC01	Basic & Advanced Sequence Analysis				✓
PT02CBIC02	Principles of Mathematics & Biostatistics				✓
PT02CBIC03	Databases in Life Sciences				✓
PT02CBIC04	Experimental Methods-III				✓
PT02CBIC05	Experimental Methods-IV				✓
PT02EBIC01	Web Application Development In Bioinformatics				✓
PT02EBIC02	Fundamentals of Algorithms				✓
PT03CBIC01	Genomics & Proteomics				✓
PT03CBIC02	Computational Structural Biology				✓
PT03CBIC03	Advance Algorithms in Computing				✓

PT03CBIC04	Experimental Methods-V				✓
PT03CBIC05	Experimental Methods-VI				✓
PT03EBIC01	Graphics & Animation				✓
PT03EBIC02	Introduction of System Biology				✓
PT04CBIC01	Project				✓

Program	MSc (Applied Physics)				
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POs	PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analyzing the problem.				
PSOs	PSO1 Understand various aspects of applied physics in addition to classical, quantum physics, mathematical physics, electrodynamics, statistics, condensed matter and nuclear physics. PSO2 Experiential learning through activities such as lab practical's, research project and workshops PSO3 Apply their learned knowledge in various branches of science, in Industries and Government sectors, in the field of Semiconductor, Vacuum technology, Sensor and Electronics, Laser and Optics, Renewable energy, Defence, Nanomaterials, etc.				

Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

PT01CAPC01	Basic Mathematical Tools				✓
PT01CAPC02	Physics of Atomic - Molecular Spectroscopy and Statistical Mechanics				✓
PT01CAPC03	Applied Electronics				✓
PT01CAPC04	Experimental Methods -I				✓
PT01CAPC05	Experimental Methods -II				✓
PT01EAPC01	Nanoscience & Applied Materials				✓
PT01EAPC02	Numerical and Statistical Methods for Applied Physics				✓
PT02CAPC01	Classical Mechanics and Quantum Mechanics				✓
PT02CAPC02	Electrodynamics				✓
PT02CAPC03	Elements of Applied Physics				✓
PT02CAPC04	Experimental Methods -III				✓
PT02CAPC05	Experimental Methods -IV				✓
PT02EAPC01	Fundamentals of Materials Science				✓
PT02EAPC02	Electronics Devices & Photovoltaics				✓
PT03CAPC01	Quantum Effects in Solids				✓
PT03CAPC02	Optical and Magnetic Properties of Solids				✓
PT03CAPC03	Non-Destructive Testing Techniques				✓
PT03CAPC04	Experimental Methods -V				✓
PT03CAPC05	Experimental Methods -VI				✓
PT03EAPC01	Surface Science and Thin Film Technology				✓

PT03EAPC02	Solar Energy & Geothermal Energy				✓
PT04CAPC01	Elements of Nuclear and Particle Physics				✓
PT04CAPC02	Sophisticated Experimental & Characterization Techniques				✓
PT04CAPC03	Advanced Devices and Sensors				✓
PT04CAPC04	Experimental Methods –VII				✓
PT04CAPC05	Experimental Methods -VIII				✓
PT04CAPC07	Project Work				✓
PT04EAPC01	Crystallography and Crystal Growth Methods				✓
PT04EAPC02	Advanced Electronic Devices				✓
Program	MSc (Applied Chemistry)				
POs	<p>At the end of the program, the students will be able to</p> <p>PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject.</p> <p>PO2 Understand laboratory processes and use scientific equipment and work independently.</p> <p>PO3 Develop research temperament as a consequence of their theory and practical learning.</p> <p>PO4 Communicate scientific information in oral and written form.</p> <p>PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development.</p> <p>PO6 The students are able to handle unexpected situations by critically analyzing the problem.</p>				
PSOs	<p>PSO1 Applied Chemistry is specialized Post Graduate (PG) programme designed to bridge the gap between Chemistry, Engineering and Technology. The course will cover all the essential features of regular program with the special emphasis on the laboratory and research training through project work.</p> <p>PSO2 This program includes basic chemistry such as organic, inorganic, physical, analytical, polymer and industrial. Additionally, this program contains study of advanced and realistic chemistry that will be enrich their knowledge for the research and industry.</p> <p>PSO3 Motivate acute thinking and problem resolving skill. The program train students for both professional job market and exciting basic and interdisciplinary research career in chemical science and opens many job scopes after successful completion.</p> <p>PSO4 Hands-on training on numerous of instrument such as HPLC, LC-MS, GC, TGA, DST, DSC, UV-Vis spectrophotometer, Rheometer and ICP-AES.</p>				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PT01CACH21	Inorganic Chemistry – I				✓
PT01CACH22	Organic Chemistry – I				✓
PT01CACH23	Physical Chemistry – I				✓
PT01CACH24	Practicals				✓
PT01CACH25	Practicals				✓
PT01EACH21	Analytical Chemistry				✓
PT01EACH22	Environmental Chemistry				✓
PT02CACH21	Inorganic Chemistry – II				✓
PT02CACH22	Organic Chemistry – II				✓
PT02CACH23	Physical Chemistry – II				✓
PT02CACH24	Practicals				✓
PT02CACH25	Practicals				✓
PT02EACH21	Instrumental Methods of Analysis				✓
PT02EACH22	Advanced Characterization Techniques				✓

PT03CACH21	Applied Inorganic Material				✓
PT03CACH22	Applied Organic Chemistry - I				✓
PT03CACH23	Applied Physical Chemistry				✓
PT03CACH24	Practicals				✓
PT03CACH25	Practicals				✓
PT03EACH21	Fundamentals of Polymer Chemistry				✓
PT03EACH22	Drug Design and Applications				✓
PT03EACH23	Advanced Computational Methods in Chemistry				✓
PT04CACH21	Applied Organic Chemistry - II				✓
PT04CACH22	Process and Analysis in Industry				✓
PT04CACH23	Industrial Management and Hygiene				✓
PT04CACH24	Project Work				✓
PT04CACH25					✓
PT04EACH21	Advances in Polymer Chemistry				✓
PT04EACH22	Selected Topics in Applied Chemistry				✓
PT04EACH23	Organic Semiconductors				✓
Program	MPharm (Pharmaceutical Quality Assurance)				
POs	PO1 Acquire knowledge and comprehension of the advancements in the core and specialization area of pharmacy. PO2 Demonstrate a degree of expertise in laboratory practices, analytical techniques and scientific tools. PO3 Independently carry out research/investigation and development work to solve problem. PO4 Write and present a substantial scientific document and technical report. PO5 Apply reasoning by contextual knowledge to assess societal impact, environmental impact, health, safety and legal issues and the consequent responsibilities relevant to the pharmacy profession.				
PSOs	PSO1 Understand the Quality Assurance, Total Quality Management, and Quality Management concepts, Hazard Management system and technology transfer system. PSO2 Adopt GMP, Schedule M, ISO 9000 and 14000 standards, NABL accreditation, ICH, USFDA, WHO and other regulatory guidelines and common requirement for product registration and product development. PSO3 Dealing with different quality concept and use modern pharmaceutical tools, software and equipment to analyze & solve problems with the help of GLP, GCP, QbD, PAT and their documentation. PSO4 Doing various pharmaceutical product development interaction such as calibration, validation, product complain and recall, corrective and preventive action, documentation and their regulatory requirement. PSO5 Dealing with various advanced instrumental techniques for identification, characterization, and quantification of drugs and pharmaceuticals. PSO6 To generate validation protocol for all pharmaceutical operations starting from drug research to development to formulation.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
MQA101T	Modern Pharmaceutical Analytical Techniques			✓	✓
MQA102T	Quality Management System				✓
MQA103T	Quality Control and Quality Assurance				✓
MQA104T	Product Development and Technology Transfer				✓
MQA105P	Pharmaceutical Quality Assurance Practical I			✓	

MQA201T	Hazards and Safety Management			✓	
MQA202T	Pharmaceutical Validation				✓
MQA203T	Audits and Regulatory Compliance				✓
MQA204T	Pharmaceutical Manufacturing Technology				✓
MQA205P	Pharmaceutical Quality Assurance Practical II			✓	
MRM301T	Research Methodology and Biostatistics			✓	✓
MQA302J	Journal Club		✓		
MQA303D	Dissertation-Project			✓	
MQA304R	Research work-Project			✓	
MQA401J	Journal Club		✓		
MQA402D	Dissertation-Project			✓	
MQA403R	Research work and Colloquium			✓	
Program	MSc Home Science (Food and Nutrition)				
POs	Programme outcome of M.Sc. (Home Science) is to instil professional, practical and entrepreneurship skills for improvement in the quality of life of family and community				
PSOs	<p>PSO1 Knowledge related to fundamentals of Biochemistry, Molecular Nutrition, Medical Nutrition Therapy, Food Science, Nutraceuticals, Community Nutrition and Food Quality Assurance through theoretical and practical skills.</p> <p>PSO2 Familiarization with government programmes and schemes related to public health nutrition.</p> <p>PSO3 Training to become registered dietitians as well as professionals of Food and Nutrition services/industries and nutripreneurs.</p> <p>PSO3 Training to take up jobs in nutrition related state, national and international health and welfare programmes.</p> <p>PSO4 Skills to undertake systematic and independent research in the area of Foods & Nutrition.</p>				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PH01CFDN21	Principles and Applications of Instruments and Techniques		✓	✓	✓
PH01CFDN22	Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques)		✓	✓	✓
PH01CFDN23	Basic Biochemistry		✓	✓	✓
PH01CFDN24	Practical based on PH01CFDN23 (Basic Biochemistry)		✓	✓	✓
PH01CFDN25	Physiology and Clinical Biochemistry		✓	✓	✓
PH01CFDN26	Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry)		✓	✓	✓
PH01EFDN21	Food Microbiology	✓	✓	✓	✓
PH01EFDN22	Practical based on PH01EFDN21 (Food Microbiology)	✓	✓	✓	✓
PH01EFDN23	Cell and Molecular Biology		✓	✓	✓
PH01EFDN24	Practical based on PH01EFDN23 (Cell and Molecular Biology)		✓	✓	✓
PH02CFDN21	Statistics	✓	✓	✓	✓
PH02CFDN22	Nutritional Biochemistry		✓	✓	✓
PH02CFDN23	Practical based on PH02CFDN22 (Nutritional Biochemistry)		✓	✓	✓
PH02CFDN24	Food and Nutraceutical Chemistry	✓	✓	✓	✓
PH02CFDN25	Practical based on PH02CFDN24 (Food and Nutraceutical Chemistry)	✓	✓	✓	✓

PH02CFDN26	Extension Activity	✓	✓	✓	✓
PH02CFDN27	Practical based on Food Analysis	✓	✓	✓	✓
PH02EFDN21	Food Processing Technology	✓	✓	✓	✓
PH02EFDN22	Practical based on PH02EFDN21 (Food Processing Technology)	✓	✓	✓	✓
PH02EFDN23	Human Genetics		✓	✓	✓
PH02EFDN24	Practical based on PH02EFDN23 (Human Genetics)		✓	✓	✓
PH03CFDN21	Research Methodology and Scientific Writing		✓	✓	✓
PH03CFDN22	Practical –Scientific Writing		✓	✓	✓
PH03CFDN23	Molecular Nutrition - I	✓	✓	✓	
PH03CFDN24	Practical based on PH03CFDN23 (Molecular Nutrition - I)	✓	✓	✓	
PH03CFDN25	Medical Nutrition Therapy - I		✓	✓	✓
PH03CFDN26	Practical based on PH03CFDN25 (Medical Nutrition Therapy - I)		✓	✓	✓
PH03CFDN27	Dissertation	✓	✓	✓	
PH03EFDN21	Community Nutrition	✓	✓	✓	
PH03EFDN22	Practical based on PH03EFDN21 (Community Nutrition)	✓	✓	✓	
PH03EFDN23	Food Product Development and Quality Assurance	✓	✓	✓	✓
PH03EFDN24	Practical based on PH03EFDN23 (Food Product Development and Quality Assurance)	✓	✓	✓	✓
PH03EFDN25	Nutrigenomics and Personalized Nutrition	✓	✓	✓	
PH03EFDN26	Practical based on PH03EFDN25 (Nutrigenomics and Personalized Nutrition)	✓	✓	✓	
PH04CFDN21	Molecular Nutrition - II	✓	✓	✓	
PH04CFDN22	Medical Nutrition Therapy - II	✓	✓	✓	
PH04CFDN23	Dissertation & Viva Voce	✓	✓	✓	✓
Program	MSc Home Science (Food Biotechnology)				
POs	Programme outcome of M.Sc. (Home Science) is to instil professional, practical and entrepreneurship skills for improvement in the quality of life of family and community				
PSOs	PSO1 Familiarization with the fundamentals of Biotechnology, Industrial Microbiology, Food Biosciences and Nutritional Biotechnology. PSO2 Knowledge related to Food and Nutritional Security using the biotechnological approach. PSO3 Theoretical and practical knowledge related to food quality assurance. PSO4 Skills to undertake systematic & independent research in the area of Food Biotechnology.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PH01CFBT21	Principles and Applications of Instruments and Techniques		✓	✓	✓
PH01CFBT22	Practical based on PH01CFBT21 (Principles and Applications of Instruments and Techniques)		✓	✓	✓
PH01CFBT23	Basic Biochemistry		✓	✓	✓

PH01CFBT24	Practical based on PH01C FBT23 (Basic Biochemistry)		✓	✓	✓
PH01CFBT25	Cell and Molecular Biology		✓	✓	✓
PH01CFBT26	Practical based on PH01C FBT25 (Cell and Molecular Biology)		✓	✓	✓
PH01EFBT21	Food Microbiology	✓	✓	✓	✓
PH01EFBT22	Practical based on PH01E FBT21 (Food Microbiology)	✓	✓	✓	✓
PH01EFBT23	Physiology and Clinical Biochemistry		✓	✓	✓
PH01EFBT24	Practical based on PH01E FBT23 (Physiology and Clinical Biochemistry)		✓	✓	✓
PH02CFBT21	Statistics	✓	✓	✓	✓
PH02CFBT22	Recombinant DNA Technology		✓	✓	✓
PH02CFBT23	Practical based on PH02C FBT22 (Recombinant DNA Technology)		✓	✓	✓
PH02CFBT24	Food and Nutraceutical Chemistry	✓	✓	✓	✓
PH02CFBT25	Practical based on PH02C FBT24 (Food and Nutraceutical Chemistry)	✓	✓	✓	✓
PH02CFBT26	Entrepreneurship Development		✓	✓	✓
PH02CFBT27	Practical based on Food Analysis	✓	✓	✓	✓
PH02EFBT21	Food Processing Technology	✓	✓	✓	✓
PH02EFBT22	Practical based on PH02E FBT21 (Food Processing Technology)	✓	✓	✓	✓
PH02EFBT23	Nutritional Biochemistry		✓	✓	✓
PH02EFBT24	Practical based on PH02E FBT23 (Nutritional Biochemistry)		✓	✓	✓
PH03CFBT21	Research Methodology and scientific writing		✓	✓	✓
PH03CFBT22	Practical –Scientific Writing		✓	✓	✓
PH03CFBT23	Fundamentals of Industrial Microbiology		✓	✓	✓
PH03CFBT24	Practical based on PH03C FBT23(Fundamentals of Industrial Microbiology)		✓	✓	✓
PH03CFBT25	Advanced Nutrition		✓	✓	✓
PH03CFBT26	Practical based on PH03C FBT25(Advanced Nutrition)		✓	✓	✓
PH03CFBT27	Dissertation	✓	✓	✓	
PH03EFBT21	Human Genetics	✓	✓	✓	✓
PH03EFBT22	Practical based on PH03E FBT21 (Human Genetics)	✓	✓	✓	✓
PH03EFBT23	Food Product Development and Quality Assurance	✓	✓	✓	✓
PH03EFBT24	Practical based on PH03E FBT23 (Food Product Development and Quality Assurance)	✓	✓	✓	✓
PH04CFBT21	Nutritional Biotechnology		✓	✓	✓
PH04CFBT22	Food Bioscience		✓	✓	✓
PH04CFBT23	Dissertation & Viva Voce	✓	✓	✓	
Program	MSc Home Science (General)				
POs	The programme outcome of M.Sc. (Home Science) is to instil professional, practical and entrepreneurship skills for improvement in the quality of life of family and community				
PSOs	PSO1 The programme provides knowledge to understand various approaches to family				

	<p>and community care.</p> <p>PSO2 To acquaint the students with the basic knowledge related to Foods and Nutrition, Human Development, Textiles and Clothing, Family Resource Management and Extension through theoretical and practical skills.</p> <p>PSO3 To familiarize the students with government programs and schemes related to the welfare of family and community.</p> <p>PSO4 To impart field work experience to identify problems and their probable solutions related to community.</p> <p>PSO5 To train the students to take up jobs in nutrition related state, national and international health and welfare programmes.</p> <p>PSO6 To acquire skills to undertake systematic and independent research in various areas of Home Science.</p>
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Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

PH01CGEN21	Communication Skills	✓	✓		
PH01CGEN22	Fundamentals of Food Sciences & Nutrition		✓	✓	✓
PH01CGEN23	Practical based on PH01CGEN22		✓	✓	✓
PH01CGEN24	Early Childhood Care & Education		✓	✓	✓
PH01CGEN25	Practical based on PH01CGEN24		✓	✓	✓
PH01CGEN26	Dress Designing & Fashion Merchandising	✓	✓	✓	✓
PH01CGEN27	Practical-Garment Construction and Fashion Illustration	✓	✓	✓	
PH01CGEN28	Community Development –I	✓	✓		
PH01EGEN21	Consumer Information & Redressal	✓	✓	✓	
PH01EGEN22	Fundamentals of Ergonomics	✓	✓	✓	✓
PH02CGEN21	Statistics	✓	✓	✓	✓
PH02CGEN22	Practical based on PH02CGEN21	✓	✓	✓	✓
PH02CGEN23	Nutrition in Health and Diseases		✓	✓	✓
PH02CGEN24	Practical based on PH02CGEN23		✓	✓	
PH02CGEN25	Women’s Studies	✓	✓	✓	✓
PH02CGEN26	Practical based on PH02CGEN25	✓	✓	✓	
PH02CGEN27	Entrepreneurship Development	✓	✓	✓	
PH02CGEN28	Practical – Entrepreneurship Experience	✓	✓	✓	
PH02CGEN29	Community Development –II	✓	✓	✓	✓
PH02EGEN21	Historic textiles & Costumes	✓	✓	✓	✓
PH02EGEN22	Sociological & Psychological aspects of Clothing	✓	✓	✓	✓
PH03CGEN21	Research Methodology & Scientific Writing		✓	✓	✓
PH03CGEN22	Practical - Scientific Writing		✓	✓	✓
PH03CGEN23	Management of Hospitality Institutions	✓	✓	✓	✓
PH03CGEN24	Practical based on PH03CGEN21	✓	✓	✓	
PH03CGEN25	Textile Science	✓	✓	✓	✓
PH03CGEN26	Practical- Textile Analysis and Design	✓	✓	✓	✓
PH03CGEN27	Programme Development and Extension	✓	✓	✓	
PH03CGEN28	Dissertation	✓	✓	✓	
PH03CGEN29	Project	✓	✓	✓	
PH03EGEN21	Community Nutrition	✓	✓	✓	
PH03EGEN22	Food Safety	✓	✓	✓	✓
PH04CGEN21	Residential & Commercial Interior	✓	✓	✓	✓

	Designing				
PH04CGEN22	Practical based on PH04CGEN21	✓	✓	✓	✓
PH04CGEN24	Dissertation	✓	✓	✓	✓
PH04CGEN25	Project	✓	✓	✓	✓
PH04CGEN26	Communication Development	✓	✓	✓	
PH04CGEN27	Practical based on PH04CGEN26	✓	✓	✓	
PH04EGEN21	Advanced study in H.D.		✓	✓	✓
PH04EGEN22	Care of the Elderly		✓	✓	✓
Program	MA (Economics)				
POs	Economics is one of the oldest subject taught. The development of society is precisely governed and determined by behaviour of an individual at a micro level on one hand and that of an aggregate behaviour of a number of different economic individual groups, economic sectors and different economic organizations as well. The programme enables students to understand, examine and evaluate various economic theories, economic programmes, economic policies, etc. The programme focuses to explain individual, organizational, regional, and international economic behaviour under static and dynamic conditions.				
PSOs	<p>PSO1 Interpret and examine various decision-making behaviour of microeconomics related to the study of the economic behaviour of an individual consumer, producer, a firm, a market and factors of production.</p> <p>PSO2 Explain and illustrate various behaviour related to aggregate units of a nation by studying macroeconomics.</p> <p>PSO3 Recall estimate and compute the values of various economic variables from available information using mathematical and statistical economics.</p> <p>PSO4 Establish profound knowledge in specific filed of economics like agricultural economics & environmental economics.</p> <p>PSO5 Have clarity about the methodology and different types of equilibrium.</p>				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PA01CECO21	Micro Economics	✓	✓	✓	
PA01CECO22	Macro Economics			✓	
PA01CECO23	International Economics				✓
PA01EECO21	Theory of Agricultural Economics	✓	✓	✓	
PA01EECO22	Economics of Environment			✓	✓
PA01EECO23	Socio-Economic Survey Methods			✓	✓
PA01EECO24	Research Methodology and Computer Application in Economics				✓
PA02CECO21	Micro Economics	✓	✓	✓	
PA02CECO22	Macro Economics			✓	
PA02CECO23	International Economics				✓
PA02EECO21	Theory of Agricultural Economics	✓	✓	✓	
PA02EECO22	Economics of Environment				✓
PA02EECO23	Economics of Rural Development	✓	✓	✓	
PA02EECO24	Research Methodology and Computer Application in Economics				✓
PA03CECO21	Economics of Development and Planning		✓	✓	✓
PA03CECO22	Public Economics	✓	✓	✓	
PA03CECO23	Quantitative Economics			✓	✓
PA03EECO21	Problems of Indian Agriculture	✓	✓	✓	
PA03EECO22	Environmental Problems of India	✓	✓	✓	
PA03EECO23	Economics of Rural Development	✓	✓	✓	
PA03EECO24	Research Methodology and Computer				✓

	Application in Economics				
PA04CECO21	Economics of Development and Planning		✓	✓	✓
PA04CECO22	Public Economics	✓	✓	✓	
PA04CECO23	Quantitative Economics			✓	✓
PA04EECO21	Human Development	✓	✓	✓	✓
PA04EECO22	Basics of Computers for Economics				✓
PA04EECO23	Environmental Protection in India	✓	✓	✓	
PA04EECO24	Fundamentals of Research Methodology in Economics			✓	✓
Program	MA (English)				
POs	The very title of the programme "Master of Arts" is an indication that the students who join this full time Degree Course Programme are supposed to be the master of their subject with ample knowledge of every aspect related to their subject. The programme outcome of this two year and four semester degree course programme is to make students the masters of their discipline and subject.				
PSOs	PSO1 Knowledge of literature written in English in the different countries and continents of the world. PSO2 Knowledge of Literary Criticism and all the literary, critical and cultural theories and isms which are discussed across the world. PSO3 Awareness of how to approach and compare other forms of arts like cinema with literature and how a literary text is translated adapted to a visual form through the cinematic adaptation.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PA01CENG21	History of English Literature (1550 - 1798)				✓
PA01CENG22	History of English Literature (1798 - 1914)				✓
PA01CENG23	Postcolonial Literatures of the Indian Sub-Continent	✓	✓	✓	✓
PA01EENG21	Canadian Fiction				✓
PA01EENG22	Progressive Literature and People's Theatre in India	✓	✓	✓	✓
PA02CENG21	History of English Literature (1914 to the Present)				✓
PA02CENG22	Arabic and Middle Eastern Literatures				✓
PA02CENG23	Literary Criticism			✓	✓
PA02EENG21	Russian Fiction				✓
PA02EENG22	Partition Narratives			✓	✓
PA03CENG21	Literary Form: Epic				✓
PA03CENG22	Literary Theory				✓
PA03CENG23	Persecuted Writers and Threatened Literature Around the World				✓
PA03EENG21	New Literatures in English			✓	✓
PA03EENG22	Indian Literatures in English Translation	✓	✓	✓	✓
PA04CENG21	Indian Argumentative Literature	✓	✓	✓	✓
PA04CENG22	German Novel				✓
PA04CENG23	Critical and Cultural Theory				✓
PA04EENG21	Literature and Myth			✓	✓
PA04EENG22	Cinematic Adaptations of Literature		✓	✓	✓
Program	MA (Gujarati)				

POs	The very title of the programme "Master of Arts" is an indication that the students who join this full time Degree Course Programme are supposed to be the master of their subject with ample knowledge of every aspect related to their subject. The programme outcome of this two year and four semester degree course programme is to make students the masters of their discipline and subject.
PSOs	<p>PSO1 The study of the M.A. Gujarati program will give perception of life open imagination to previously undiscovered aspect of the outside world, and enhance student's capacity to empathize.</p> <p>PSO2 It will give opportunity to students to learn value of literature, to interpret decoding emotions and aesthetic elements of literature for making the world a better place.</p> <p>PSO3 It will enhance student's ability to communicate with others, lead to a wider scope of the own comprehension and knowledge.</p>

Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

PA01CGUJ21	Avarcin Gujarati Kavita no Vikas		✓		
PA01CGUJ22	Adhunik Gujarati Sahitya		✓		
PA01CGUJ23	Bhartiya Sahitya Mimansha		✓	✓	
PA01EGUJ21	Madhayakalin Gujarati Sahitya		✓		
PA01EGUJ22	Gujarat : Lok Vidya, Lok Sahitya	✓	✓		
PA02CGUJ21	Avarchin Gujarati Kavita - Swarup Abhyaas		✓		
PA02CGUJ22	Anu Adhunik Gujarati Sahitya		✓		
PA02CGUJ23	Prashatya Sahitya Mimansha			✓	✓
PA02EGUJ21	Bhartiya Sahitya		✓	✓	
PA02EGUJ22	Madhyakalin Gujarati Sarjak- Nakar		✓		
PA03CGUJ21	Arvachin Gujarati Gadya Swarup		✓		
PA03CGUJ22	Gujarati Vivechan vichar		✓		
PA03CGUJ23	Gujarati Bhasha Swarup		✓		
PA03EGUJ21	Vishva Sahitya				✓
PA03EGUJ22	Sahitya Swarupno Abhyas : khandkavya		✓		
PA04CGUJ21	Arvachin Gujarati Gadya		✓		
PA04CGUJ22	Sarjak Abhyas: R.V.Pathak		✓		
PA04CGUJ23	Bhashavignan ane shailivignan		✓		
PA04EGUJ21	Tulnatmak Sahitya		✓	✓	
PA04EGUJ22	Art of Film Transformation		✓	✓	✓

Program	MA (Hindi)
POs	<p>PO1 Through Master of Arts degree programme, learner understands social phenomena which effects, changing trends, learning of language, suitable to various terms of the subject with deep and clear vision. Going through Master of Arts programme, learner develops the capacity and ability for advance reading, writing, speaking.</p> <p>PO2 Knowledge of Hindi language with literary terms develops suitable environment to learner to be up to the mark as Hindi is emerging as a medium of communication at large , in present global era.</p>
PSOs	<p>PSO1 Learning of Hindi language as well as Hindi literature with other related areas.</p> <p>PSO2 Understanding human, nature, society, culture, history and related terms and references etc., learner develops a certain vision to understand things by studying Hindi language and literature.</p> <p>PSO3 Knowledge of various areas of Hindi literature like ADIKAL, PURVA MADHYAKAL (BHAKTIKAL) UTTAR MADHYAKAL (RITIKAL)and ADHUNIKKAL (GADYAKAL); Indian and western poetics (approaches and tools to understand subject); ancient, medieval and modern poetry; Hindi prose with its different forms like UPANYAS, KAHANI, NATAK,NIBANDH,ALOCHANA,</p>

	DRAMA and DRAMATICS and theoretical studies; translation with its methods and types. PSO4 Knowledge and understanding of method of comparative study, Hindi criticism ; study of functional Hindi (official language) various approaches to criticism with tools , Hindi journalism , media studies , study of communication mediums, PSO5 Knowledge of Hindi language in computing, folk literature , literary forms etc.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PA01CHIN21	Bhaktikavya			✓	
PA01CHIN22	Natak Evm any Vidhe (Nibandh evm Jivni)				✓
PA01CHIN23	Bhasavignan	✓	✓	✓	✓
PA01EHIN21	Natak Sidhant athva	✓	✓	✓	✓
PA01EHIN22	Dhrashy-Shavy Madhyam Lekhan : Etihas	✓	✓	✓	✓
PA01EHIN23	Lok Sahity athva	✓	✓	✓	✓
PA01EHIN24	Anuvad Sithant, Swarup, Shetra				
PA02CHIN21	Ritikavy		✓	✓	
PA02CHIN22	Kathasahitya			✓	
PA02CHIN23	Hindi Bhasha				✓
PA02EHIN21	Hindij Rang Shilp Evm Natay Kruti			✓	
PA02EHIN22	Dhrasya Shavya Madhyam Lekhan : Sanchar Madhyam aur T.V.				✓
PA02EHIN23	Lok Vidhae			✓	
PA02EHIN24	Anuvad : Prakar Samsae				✓
PA03CHIN21	Bhartiya Kavyashastra aur Aalochana			✓	
PA03CHIN22	Hindi Sahitya ka Etihas (Aadhunikal ke Purva)			✓	
PA03CHIN23	Chayavadi Kavya			✓	
PA03EHIN21	Prayojanmulak Kamkaje Hindi				✓
PA03EHIN22	Bhartiya Sahitya : Sidhantk Pax			✓	
PA03EHIN23	Media Lekhan aur Anuvad				✓
PA03EHIN24	Bhartiy Sahity : Sarjnatmak Pax			✓	
PA04CHIN21	Pachyatkvashastra : Sidhant aur Vad				✓
PA04CHIN22	Adhunik Hindi Sahity ka Etihas			✓	
PA04CHIN23	Chayavadotar Kavya			✓	
PA04EHIN21	Sahitya aur Smajshastra			✓	
PA04EHIN22	Sahitya aur Pryavaran			✓	
Program	MA (History)				
POs	PO1 Familiarisation with the general world history PO2 In-depth understanding of Indian history and offers a specialisation in modern Indian history with special emphasis on the history of modern Gujarat.				
PSOs	PSO1 Familiarisation with the general history of ancient world PSO2 Sensitisation to major political developments ushered far reaching economic and social developments in modern world PSO3 General acquaintance with the ancient Indian history and its bearings on modern Indian society and economy PSO4 Prepare students for their specialisation in modern Indian history				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PA01CHIS21	Ancient World				✓
PA01CHIS22	History of Modern World: 1870–1945			✓	
PA01CHIS23	Political History of Modern India:			✓	

	1757–1884				
PA01EHIS21	Indian Society in Transition: 1800–1920			✓	
PA01EHIS22	Social and Economic History of Ancient India			✓	
PA02CHIS21	History of World: 1945–2000				✓
PA02CHIS22	India's Struggle for Freedom: 1885–1947			✓	
PA02CHIS23	Philosophy of History and Historiography: the Western Tradition				✓
PA02EHIS21	Constitutional and Administrative History of India: 1858–1950			✓	
PA02EHIS22	Economic History of Colonial India: 1757–1947			✓	
PA03CHIS21	Social and Economic History of Mediaeval Gujarat: 942–1818		✓		
PA03CHIS22	Peasant and Tribal Movements in Colonial India 1757–1947		✓	✓	
PA03CHIS23	Philosophy of History and Historiography: Indian Tradition			✓	
PA03EHIS21	Tourism in India			✓	
PA03EHIS22	Agrarian and Village History of Colonial India: 1757–1947		✓	✓	
PA04CHIS21	India since Independence: 1947–2000			✓	
PA04CHIS22	Transition to Modernity: Gujarat: 1796–1909		✓		
PA04CHIS23	Constructive Activities in Gujarat: 1914–2000		✓		
PA04EHIS21	Interdisciplinary 1: Political History of Gujarat: 1914–1960		✓		
PA04EHIS22	Interdisciplinary 2: Education in Colonial India: 1813–1947			✓	
Program	Mlib (Library & Information Science)				
POs					
PSOs					
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PA01CLIB21	Information & Communication				✓
PA01CLIB22	Management of Library & Information Systems & Centre			✓	✓
PA01CLIB23	Information Analysis, Repackaging & Consolidation (Theory)			✓	✓
PA01CLIB24	Information Analysis, Repackaging & Consolidation (Practical)			✓	✓
PA01ELIB21	Academic Library System				✓
PA02CLIB21	Information Storage & Retrieval (Theory)			✓	✓
PA02CLIB22	Information Storage & Retrieval (Practical)			✓	✓
PA02CLIB23	Research Methodology & Statistical Techniques				✓
PA02CLIB24	Dissertation / Digitization / Project			✓	✓
PA02ELIB21	Information Technology (Theory)				✓

PA02ELIB22	Information Technology (Practical)				✓
Program	BLib (Library & Information Science)				
POs					
PSOs					
UA01CLIB21	Knowledge Organization, Information Processing & Retrieval (Library Classification Theory)			✓	✓
UA01CLIB22	Knowledge Organization, Information Processing & Retrieval (Library Cataloguing and Subject Indexing – Theory)			✓	✓
UA01CLIB23	Knowledge Organization, Information Processing & Retrieval (Library Classification – Practical)			✓	✓
UA01CLIB24	Merged Knowledge Organization, Information Processing & Retrieval (Library Cataloguing and Subject Indexing – Practical)			✓	✓
UA01ELIB21	Foundations of Library and Information Science				✓
UA02CLIB21	Library Administration & Organisation (Theory)				✓
UA02CLIB22	Computer Application – Theory				✓
UA02CLIB23	Computer Application – Practical				✓
UA02CLIB24	Reference and Information Sources – Theory			✓	✓
UA02CLIB25	Reference and Information Sources – Practical			✓	✓
UA02ELIB21	Reference & Information Services (Theory)			✓	✓
UA02ELIB22	Reference & Information Services Practical			✓	✓
Program	MA (Political Science)				
POs	The very title of the programme "Master of Arts" is an indication that the students who join this full time Degree Course Programme are supposed to be the master of their subject with ample knowledge of every aspect related to their subject. The programme outcome of this two year and four semester degree course programme is to make students the masters of their discipline and subject.				
PSOs	PSO1 Acquaintance with the knowledge of State, National and International Politics. PSO2 Knowledge of the process of Public Policy making in India. PSO3 Strengthen their knowledge about the Political Economy of India. PSO4 Analytical skill about the electoral politics in India.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PA01CPOS21	Social and Political Movements in Contemporary India			✓	
PA01CPOS22	Globalization and the Post –Cold-war-World Order Studies				✓
PA01CPOS23	Electoral Politics and National Building Process in India			✓	
PA01CPOS24	Emerging Trends in Gujarat Since 1960		✓		
PA01EPOS21	Indian Political Economy			✓	

PA02CPOS21	Dynamics of Politics in Gujarat State		✓		
PA02CPOS22	Governance in India : Issues of Ethics and Excellence			✓	
PA02CPOS23	South Asia: Issues of Terrorism, Development and Co-existence			✓	✓
PA02CPOS24	Research Methods in Social Science			✓	✓
PA02EPOS21	Dr. Ambedkar: Life and Political Thoughts			✓	
PA03CPOS21	Contemporary International Relations: Problems and Prospects			✓	✓
PA03CPOS22	Dynamics of Development in Gujarat: Issues of Ecology and Social Justice		✓		
PA03CPOS23	Local Self Government in India	✓	✓	✓	
PA03CPOS24	Indian Foreign Policy			✓	✓
PA03EPOS21	Political Sociology: The Indian Context			✓	
PA04CPOS21	Human Rights and Social Justice			✓	
PA04CPOS22	Political Parties in India			✓	
PA04CPOS23	Constitutional Law of India			✓	
PA04CPOS24	Indian Administration			✓	
PA04EPOS21	Environmental Problems in India			✓	
Program	MA (Psychology)				
POs	The very title of the programme "Master of Arts" is an indication that the students who join this full time Degree Course Programme are supposed to be the master of their subject with ample knowledge of every aspect related to their subject. The programme outcome of this two year and four semester degree course programme is to make students the masters of their discipline and subject.				
PSOs	PSO1 Knowledge and understanding of human behaviour and cognitive processes. PSO2 Knowledge of an ancient and modern system of psychology and stages of an ancient and modern system of psychology. PSO3 Understanding of the differences between normal and abnormal behaviour and about mental disorders. PSO4 Learning of the benefits of productivity team-building employee engagement, job satisfaction and behaviour at work place. PSO5 Knowledge of pathological behaviour and various therapies in clinical settings. PSO6 Knowledge of human engineering and its applications.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PA01CPSY21	Research Methodology and Statistics-I			✓	✓
PA01CPSY22	Advanced Experimental Psychology			✓	✓
PA01CPSY23	Ancient and Modern system of Psychology			✓	✓
PA01EPSY21	Models of Psychopathology			✓	✓
PA01EPSY22	Advanced Industrial Psychology			✓	✓
PA01EPSY23	Introduction to General concept of Psychology			✓	✓
PA01EPSY24	Psychopathology			✓	✓
PA01EPSY25	Ergonomics and Industrial Psychology			✓	✓
PA01EPSY26	Child development Psychology			✓	✓
PA02CPSY21	Research Methodology and Statistics-II:				✓
PA02CPSY22	Learning, Retention and forgetting				✓
PA02CPSY23	Theories of Human Behaviour				✓

PA02EPSY21	Clinical Psychology				✓
PA02EPSY22	Development of Organizational behaviour				✓
PA02EPSY23	Developmental Psychology				✓
PA02EPSY24	Clinical techniques & psychotherapy				✓
PA02EPSY25	Human Resource Development			✓	
PA02EPSY26	Essential Concept of Social Psychology			✓	
PA03CPSY21	Testing in Psychology				✓
PA03CPSY22	Indian Psychology			✓	
PA03CPSY23	Fundamental Social Psychology			✓	
PA03EPSY21	Health Psychology				✓
PA03EPSY22	Consumer behavior Psychology			✓	✓
PA03EPSY23	Psychology of Criminal behaviour			✓	✓
PA03EPSY24	Psychology of Rehabilitation			✓	✓
PA03EPSY25	Stress management in Organizations			✓	✓
PA03EPSY26	Psychology and Sport				✓
PA04CPSY21	Practical in Psychology				✓
PA04CPSY22	Theories of Social Psychology			✓	
PA04CPSY23	Guidance and Counseling in Education Psychology			✓	✓
PA04EPSY21	Environmental psychology			✓	✓
PA04EPSY22	Human Resource Management			✓	✓
PA04EPSY23	Cognitive Psychology				✓
PA04EPSY24	Psychology of Personality				✓
PA04EPSY25	Growth and theories of organizational Psychology				✓
PA04EPSY26	Essential Psychology				✓
Program	MA (Sanskrit)				
POs	PO1 Familiarization with Indian Philosophy in perspectives of Advaita-vedanta, Jain and Bauddha Philosophy. PO2 Knowledge of Sanskrit grammar that includes Acha-Sandhi and paspashahnika of Patanjalamahabhashya. PO3 Knowledge of sahyashastra that includes Natayashastra of Bharata. Indian epic Ramayana of Valmiki and Mahabharata. PO4 Familiarization with the work of modern Sanskrit poet ance either or respectively.				
PSOs	PSO1 Knowledge of Indian Philosophy focusing Shankarabhashya and Jain and Bauddha Philosophy as explained in Sarvadarshansangraha. PSO2 Understanding of Siddhantakaumudi & Patanjalamahabhashya particularly paspashahnika. PSO3 Knowledge and understanding of Natyashastra particularly of Bharata. PSO4 Study of Itihas and Puranas focusing Ramayana and Mahabharata. PSO5 Understanding of ratarjunyam and Shishupaladham. PSO6 Appraisal of the contribution of modern Sanskrit poets				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PA01CSAN21	Indian Philosophy: Shankarabhashya of Shankaracharya (Adhyaya-I, Selected Sutras) & Jain-Bauddha Darshana (of Sarvadarshanasangraha)			✓	
PA01CSAN22	Vyakarana: Siddhantakaumudi of Bhattojidikshita (Acha-Sandhi Prakaranam) & Paspashahnika of Patanjala Mahabhashya			✓	

PA01CSAN23	Sahityashastra: Natyashastra of Bharata (Adyhaya 1, 2 & 6)			✓	
PA01ESAN21	Itihasa-Purana: Ramayana of Valmiki (Ayodhyakanda, Sarga-1-49)			✓	
PA01ESAN22	Itihasa-Purana: Mahabharata of Vedavyasa (Mokshadharm-Parva, Selected Adhyayas) & Matsya Purana (Selected Adhyayas)			✓	
PA01ESAN24	Mahakavya: Kiratarjuniyam of Bharavi (Sarga-1) & Shishupalavadham of Magha (Sarga-1)			✓	
PA02CSAN21	Modern Sanskrit Poets (Selected)			✓	
PA02CSAN22	Indian Philosophy: Shankarabhashya of Shankaracharya Adhyaya-2 (Omit Bauddha Khandana) & Vivekachudamani of Shankara			✓	
PA02CSAN23	Vyakarana: Siddhantakaumudi of Bhattojidikshita (Hal-sandhi, Samasa) & Paniniyashiksha			✓	
PA02ESAN21	Vedanga: Nirukta of Yaska (Adhyaya-1, 2 & 7)			✓	
PA02ESAN22	Sahityashastra:Dasharupaka (Prakasha-1, 2 & 3) & Kavyamimamsa (Adhyaya-1 to 5)			✓	
PA02ESAN23	Vagishvarikanthasutram –Harshadev Madhav			✓	
PA02ESAN24	Prose: Kadambari of Banabhatta (Mahashvetavrutanta) & Harshacharitam of Banabhatta (Pancham Uchchhvas)			✓	
PA03CSAN21	Prose: Vasavaddatta of Subandhu & Shivarajavijaya of Ambikadatta Vyasa			✓	
PA03CSAN22	Vedanta: Anubhashya of Vallabhacharya, Adhyaya-1 (Selected Sutras) & Shribhashya of Ramanujacharya (1.1.1, Para- 1 To 44)			✓	
PA03CSAN23	Veda: Rigveda (Selected Suktas), Yajurveda (Shivasankalpa Suktam) & Atharvaveda (Selected Suktas)			✓	
PA03ESAN21	Vyakarana: Vakyapadiya of Bhartruhari (Brahmakanda) & Rigveda Pratishakhya: Terminology			✓	
PA03ESAN22	Drama: Abhijnanashakuntalam of Kalidasa			✓	
PA03ESAN23	Drama: Vanisamharam of Bhatta Narayan			✓	
PA03ESAN24	Sahityashastra: Dhvanyaloka of Anandavardhana (Udyota- 1) & Vakroktijivitam of Kuntaka (Unmesha-1)			✓	
PA04CSAN21	Sahityashastra: Sahityadarpana (Parichchheda- 1, 2 & 3) of Vishvanatha			✓	

PA04CSAN22	Vedanta: Anubhashhya of Vallabhacharya- Adhyaya-2 (Selected Sutras) & Shribhashya of Ramanujacharya (1.1.1, Para- 45 To 100)			✓	
PA04CSAN23	Nyaya: Nyayabhashya (Adhyaya- 1) & Nyayasiddhantamuktavali (Anumankhand)			✓	
PA04ESAN21	Unseen: Essay, Translation (Sanskrit To Gujarati & Gujarati To Sanskrit), Question From Sanskrit Paragraph		✓	✓	
PA04ESAN22	Ethics: Yajnavalkyasmruti (Vyavahara Adhyaya) & Arthasangraha of Laugakshibhaskara (Vidhiparyantam)			✓	
PA01CSAN23	Khandakavya: Meghadutam (Purvamegha) of Kalidas, Vasantvijay, Abhisara (Ravindranath Tagore)			✓	
Program	MA (Sociology)				
POs	<p>PO1 To enhance the logical and analytical skill to understand the social issues and problems. To contribute subject knowledge to nurture creativity, research and development. Provide basic and advanced theoretical as well as methodological knowledge of Sociology for application</p> <p>PO2 This program aims to enhance the skills, capabilities and employment opportunities of Students</p> <p>PO3 It is designed to provide advanced sociological knowledge perspectives and skill to wide cross- sections of the learners</p> <p>PO4 To make students rational, logical and critical and to develop their analytical skill of the social issues and events</p> <p>PO5 To enhance the Scientific knowledge and attitude about the society</p> <p>PO6 To develop in-built the capacity of the students to communicate effectively and use of sociological knowledge for better society</p> <p>PO7 To provide theoretical perspectives in Sociology, Methods of Social Research, Rural Society in India, Sociology of Education, Human Rights and Society, Sociology of Tourism, Gender and Society, Criminology, Indian Diaspora</p> <p>PO8 The major aim is to provide opportunities to the students going beyond the boundaries of their own discipline and think over the interdisciplinary and multidisciplinary approach students have choice to select different types of electives as per his or her Choice.</p>				
PSOs	<p>PSO1 The program seeks to introduce students to the major concepts of sociology and perspectives of sociology in such a way that even those who come from other disciplines and without any previous exposure to sociology could develop an interest in the subject and follow it.</p> <p>PSO2 The program would enable the students to understand, critically analyse and interpret all aspects of human social behaviours including the behaviour of individuals as well as the social dynamics of small groups, large organization, communication institution and entire societies</p> <p>PSO3 The program would familiarize students the about fundamental problems of social life at local, regional and global levels and motivate them to use these understanding in the formulation of more enlightened and effective social policy</p> <p>PSO4 Students would be able to understand the address social issues that affect everyone, from interpersonal and relations to broad challenges like global warning</p> <p>PSO5 To give an analytical and cognitive approach which will provide students to acquaint with classical, modern, and Indian sociological thinkers</p>				

Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PA01CSOC21	Theoretical Perspective in Sociology			✓	✓
PA01CSOC22	Methods of Social Research			✓	
PA01CSOC23	Rural Society in India		✓	✓	
PA01ESOC21	Sociology of Education		✓	✓	
PA01ESOC22	Human Rights and Society		✓	✓	
PA01ESOC23	Indian Diaspora			✓	✓
PA01ESOC24	Gender and Society		✓	✓	✓
PA01ESOC25	Criminology		✓	✓	✓
PA01ESOC26	Sociology of Literature		✓	✓	
PA02CSOC21	Sociological Thinkers			✓	
PA02CSOC22	Research Methodology			✓	✓
PA02CSOC23	Sociology of Family Counselling			✓	
PA02ESOC21	Education & Society		✓	✓	
PA02ESOC22	Rural Change & Development		✓	✓	
PA02ESOC23	Social Movements	✓	✓	✓	
PA02ESOC24	Women in India: The Changing Profile	✓	✓	✓	
PA02ESOC25	Sociology of Religion	✓	✓	✓	
PA02ESOC26	Sociology of Marginalized communities		✓	✓	
PA03CSOC21	Sociology of Change		✓	✓	
PA03CSOC22	Conceptualization of Indian Society		✓	✓	
PA03CSOC23	Sociology of Mass Communication		✓	✓	✓
PA03ESOC21	Sociology of Health		✓	✓	✓
PA03ESOC22	Concept and theories of Industrial Sociology		✓	✓	✓
PA03ESOC23	Sociology of Region		✓	✓	
PA03ESOC24	Political Sociology		✓	✓	
PA03ESOC25	Environmental Sociology - An Introduction			✓	
PA03ESOC26	Globalization and Society			✓	✓
PA04CSOC21	Sociology of Development		✓	✓	
PA04CSOC22	Perspective for the Study of Indian Society		✓	✓	
PA04CSOC23	Sociology of Voluntary Organization			✓	✓
PA04ESOC21	Health and Society			✓	✓
PA04ESOC22	Industry and Society in India			✓	
PA04ESOC23	Urban Sociology in India		✓	✓	
PA04ESOC24	Politics and Society in India		✓	✓	
PA04ESOC25	Environment and Society in India			✓	
PA04ESOC26	Sociology of aging			✓	✓
Program	MSW				
POs	PO1. To facilitate the students to learn the various concepts, history, philosophy and different methods of Social Work, fields of Social Work and development of Social Work profession and Social Work education in India. PO2. To enable the students to understand the basic attributes of social work as a profession. PO3. To develop knowledge, skills and attitudes essential for effective social work practice. PO4. To impart theoretical knowledge and practical exposures required for the professional social workers. PO5. To empower the students to understand and intervene in the existing social				

	<p>problems in contemporary societies.</p> <p>PO6. To acquaint with the role of social workers in the established and emerging settings of social work practice.</p> <p>PO7. To become proficient in practicing social work methods.</p> <p>PO8. To acquire proficiency in practicing social work in different fields of social work.</p> <p>PO9. To support the students for research-based practice in social work.</p>
PSOs	<p>PSO1. Practice social work with an understanding of the existing theories, models, and perspectives in social work and an ability to use these according to the specific situations of the client systems.</p> <p>PSO2. Practice social work methods in different settings with proper contextualization and cultural competence.</p> <p>PSO3. Apply the knowledge and skills required for social workers to practice with systems of all sizes.</p> <p>PSO4. Use theoretical frameworks supported by empirical evidence to understand individual development, behaviour and mental health across the life span and the interactions among individuals and between individual and families, groups, organizations, and communities.</p> <p>PSO5. Apply critical thinking skills within the context of professional social work practice.</p> <p>PSO6. Understand the value base of the profession and its ethical standards and principles, and practice accordingly.</p> <p>PSO7. Analyse, formulate, and influence social policies.</p> <p>PSO8. Conduct research studies, apply research findings to practice, and evaluate their own practice interventions.</p>

Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

PA01CMSW21	Perspectives of Social work in India	✓	✓	✓	
PA01CMSW22	Social Science study for social worker	✓	✓	✓	
PA01CMSW23	Human Growth and Development	✓	✓	✓	✓
PA01CMSW24	Social work Methods	✓	✓	✓	✓
PA01CMSW25	Social Research Methods	✓	✓	✓	✓
PA01CMSW26	Field work Practicum	✓	✓		
PA01SMSW21	Skill Laboratory	✓	✓		
PA02CMSW21	Social Case work		✓	✓	✓
PA02CMSW22	Social Group work		✓	✓	✓
PA02CMSW23	Community Organization		✓	✓	✓
PA02CMSW24	Social Work Research & Statistical Application		✓	✓	✓
PA02CMSW25	Social Policy and Social Legislation		✓	✓	
PA02CMSW26	Field work Practicum	✓	✓		
PA02SMSW21	Skill Laboratory	✓	✓		
PA03CMSW21	Working with Family, Child and Youth	✓	✓	✓	
PA03CMSW22	Labour Welfare & Human Resource Management	✓	✓	✓	
PA03CMSW23	Social Work Practice in Health Care	✓	✓	✓	✓
PA03CMSW24	Field Work Practicum	✓	✓	✓	
PA03SMSW21	Field Placement (Block/Concurrent)	✓	✓	✓	
PA03EMSW21	Skill Laboratory	✓	✓	✓	
PA03EMSW22	Administration of Welfare & Development Services	✓	✓	✓	
PA03EMSW23	Managing Voluntary Organization	✓	✓	✓	
PA03EMSW24	Labour Legislations	✓	✓	✓	
PA03EMSW25	Human Resource Development	✓	✓	✓	
PA03EMSW26	Corporate Social Responsibility	✓	✓	✓	✓

PA03EMSW27	Counseling – Theory & Practice	✓	✓	✓	✓
PA03EMSW28	Preventive & Social Medicine	✓	✓	✓	
PA03EMSW29	Human Rights & Social Work Practice	✓	✓	✓	✓
PA04SMSW21	Social Work intervention in Emergency Situations	✓	✓	✓	
PA04CMSW22	Organizational Behaviour & Employee Development	✓	✓	✓	✓
PA04CMSW23	Social Defence And Correctional Services	✓	✓	✓	✓
PA04CMSW24	Clinical Psychiatry And Community Mental Health	✓	✓	✓	✓
PA04SMSW21	Field Work Practicum	✓	✓	✓	
PA04EMSW21	Skill Laboratory	✓	✓	✓	
PA04EMSW22	Research Report	✓	✓	✓	
PA04EMSW23	Organizational Development & Dynamics	✓	✓	✓	✓
PA04EMSW24	Current Trends & Perspectives in Criminology	✓	✓	✓	✓
PA04EMSW25	Judiciary & Criminal Justice Procedure	✓	✓	✓	
PA04EMSW26	Social Work Intervention in Mental Disorders	✓	✓	✓	
PA04EMSW27	Mental Health Policy & Health Care Social Work	✓	✓	✓	✓
PA04EMSW28	Industrial Relations & Trade Unionism	✓	✓	✓	
PA04EMSW29	Rural and Urban Community Development	✓	✓	✓	
PA04EMSW30	International Social Work			✓	✓
PA04EMSW31	Labour Economics & Problems of Indian Labour	✓	✓	✓	
PA01CMSW21	Tribal Problems & Tribal Development Scheme	✓	✓	✓	
Program	MSW (HR)				
POs	<p>PO1. To facilitate the students to learn the various concepts, history, philosophy and different methods of Social Work, fields of Social Work and development of Social Work profession and Social Work education in India.</p> <p>PO2. To enable the students to understand the basic attributes of social work as a profession.</p> <p>PO3. To develop knowledge, skills and attitudes essential for effective social work practice.</p> <p>PO4. To impart theoretical knowledge and practical exposures required for the professional social workers.</p> <p>PO5. To empower the students to understand and intervene in the existing social problems in contemporary societies.</p> <p>PO6. To acquaint with the role of social workers in the established and emerging settings of social work practice.</p> <p>PO7. To become proficient in practicing social work methods.</p> <p>PO8. To acquire proficiency in practicing social work in different fields of social work.</p> <p>PO9. To support the students for research-based practice in social work.</p>				
PSOs	<p>PSO1. Practice social work with an understanding of the existing theories, models, and perspectives in social work and an ability to use these according to the specific situations of the client systems.</p> <p>PSO2. Practice social work methods in different settings with proper contextualization and cultural competence.</p> <p>PSO3. Apply the knowledge and skills required for social workers to practice with</p>				

	<p>systems of all sizes.</p> <p>PSO4. Use theoretical frameworks supported by empirical evidence to understand individual development, behaviour and mental health across the life span and the interactions among individuals and between individual and families, groups, organizations, and communities.</p> <p>PSO5. Apply critical thinking skills within the context of professional social work practice.</p> <p>PSO6. Understand the value base of the profession and its ethical standards and principles, and practice accordingly.</p> <p>PSO7. Analyse, formulate, and influence social policies.</p> <p>PSO8. Conduct research studies, apply research findings to practice, and evaluate their own practice interventions.</p>
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Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

PA01CSHR21	Principles of Management			✓	✓
PA01CSHR22	Social Science study for HR Professional	✓	✓		
PA01CSHR23	Managing Individual Behaviour	✓	✓	✓	
PA01CSHR24	Managing Group Behaviour	✓	✓	✓	
PA01CSHR25	Social Research Methods	✓	✓	✓	✓
PA01CSHR26	Field Work Practicum	✓	✓		
PA01SSHR21	Skill Laboratory	✓	✓		
PA02CSHR21	Business and HRM		✓	✓	✓
PA02CSHR22	Principle of HRM		✓	✓	✓
PA02CSHR23	Integration of HRM & Society	✓	✓	✓	
PA02CSHR24	Research Analysis and Application	✓	✓	✓	✓
PA02CSHR25	Communication Skill for Manager		✓	✓	✓
PA02CSHR26	Field Work Practicum	✓	✓		
PA02SSHR21	Skill Laboratory	✓	✓		
PA03CSHR21	Organizational Development			✓	✓
PA03CSHR22	Human Resource Development			✓	✓
PA03CSHR23	Employment Law - I		✓	✓	
PA03CSHR24	Field Work Practicum	✓	✓	✓	
PA03SSHR21	Skill Laboratory			✓	
PA03ESHR21	Management Function and Behaviour			✓	
PA03ESHR22	Corporate social responsibility	✓	✓	✓	
PA03ESHR23	Management of Human Resources	✓	✓	✓	
PA03ESHR24	Employment Relations	✓	✓	✓	
PA03ESHR25	Organizational dynamics	✓	✓	✓	✓
PA03ESHR26	Wage and Salary Administration		✓	✓	
PA03ESHR27	Human Resource Planning	✓	✓	✓	
PA03ESHR28	Human Resource Information System		✓	✓	
PA04CSHR21	Organizational Behaviour	✓	✓	✓	✓
PA04CSHR22	Compensations Management	✓	✓	✓	
PA04CSHR23	Employment Law - II	✓	✓	✓	
PA04CSHR24	Field Work Practicum	✓	✓	✓	
PA04SSHR21	Skill Laboratory	✓	✓		
PA04ESHR21	RESEARCH REPORT	✓	✓	✓	
PA04ESHR22	Corporate Governance & Business Ethics	✓	✓		
PA04ESHR23	Strategic Management	✓	✓		✓
PA04ESHR24	Competency Mapping and Career Development	✓	✓	✓	✓

PA04ESHR25	HRM in International Settings			✓	✓
PA04ESHR26	Project Management		✓	✓	
PA04ESHR27	Managerial Economics	✓	✓	✓	
PA04ESHR28	Organizational Effectiveness & change	✓	✓	✓	
PA04ESHR29	Business Environment & Law		✓	✓	
Program	MCom				
POs	PO1 To understand about soft skills chosen by the students. i.e. M S Excel, E Commerce, Corporate Communications etc. PO2 Learn various concepts of Strategic Management. PO3 Get familiarity with aspects of Business Environment. PO4 Learn concepts of Cost and Management Accounting. PO5 Get insights of elective subjects in various areas viz. Accounting, Marketing, HRM, Financial Management etc.				
PSOs	PSO1 Get familiarity with computer and its application in Business. PSO2 Get insights to various new concepts of accounting like Environmental Accounting, Human Resource Accounting etc. PSO3 Gain familiarity with recent developments of specific areas like Advanced Accounting, Marketing Management, Human Resource Management, Financial Management and Tax Planning and Management.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PB01ACOM21	Computer Application in Business - I	✓	✓	✓	✓
PB01ACOM22	E-Commerce-I		✓	✓	✓
PB01ACOM23	Corporate Communication-I	✓	✓	✓	✓
PB01CCOM21	STRATEGIC BUSINESS MANAGEMENT-I		✓	✓	✓
PB01CCOM22	BUSINESS ENVIRONMENT-I	✓	✓	✓	✓
PB01CCOM23	Cost and Management Accounting-I		✓	✓	✓
PB01ECOM21	Management Control System - I	✓	✓	✓	
PB01ECOM22	Rural Marketing	✓			
PB01ECOM23	Organisational Behaviour		✓		
PB01ECOM24	Financial Market and Services I	✓	✓	✓	✓
PB01ECOM25	Direct Tax Planning -I			✓	
PB01ECOM26	Entrepreneurial Behaviour	✓	✓	✓	✓
PB01ECOM27	Fundamental Statistics I			✓	✓
PB01ECOM28	Fundamentals of Banking and Insurance	✓	✓	✓	✓
PB02ACOM21	Computer Application in Business - II	✓	✓	✓	✓
PB02ACOM22	E-Commerce-II		✓	✓	✓
PB02ACOM23	Corporate Communication-II	✓	✓	✓	✓
PB02CCOM21	STRATEGIC BUSINESS MANAGEMENT-II		✓	✓	✓
PB02CCOM22	BUSINESS ENVIRONMENT-II	✓	✓	✓	✓
PB02ECOM23	Cost and Management Accounting-II		✓	✓	✓
PB02ECOM22	Service Marketing	✓	✓	✓	✓
PB02ECOM23	HUMAN RESOURCE DEVELOPMENT	✓	✓	✓	
PB02ECOM24	FINANCIAL MARKETS AND SERVICES-II	✓	✓	✓	✓
PB02ECOM25	Direct Tax Planning -II			✓	
PB02ECOM26	Economic System of Entrepreneurship	✓	✓	✓	
PB02ECOM27	Business Research Methods			✓	✓
PB02ECOM28	Marketing of Banking Products and Insurance Services	✓	✓	✓	✓

PM02ECOM21	Management Control System - II	✓	✓	✓	✓
PB03ACOM21	Career Planning-I	✓	✓	✓	✓
PB03ACOM22	Knowledge Management-I	✓	✓	✓	✓
PB03ACOM23	Leadership Skills-I	✓	✓	✓	✓
PB03CCOM21	Research Methodology-I			✓	✓
PB03CCOM22	Entrepreneurship Development-I	✓	✓	✓	✓
PB03CCOM23	Financial Management-I	✓	✓	✓	✓
PB03ECOM21	Corporate Accounting-I			✓	✓
PB03ECOM22	Integrated Marketing Communications	✓	✓	✓	✓
PB03ECOM23	Industrial Relations		✓	✓	
PB03ECOM24	Strategic Financial Management-I		✓	✓	
PB03ECOM25	Indirect Taxes-I	✓	✓	✓	✓
PB03ECOM26	Project Management			✓	✓
PB03ECOM27	Operations Research			✓	✓
PB03ECOM28	Mechanics of Banking and Insurance	✓	✓	✓	✓
PB04ACOM21	Career Planning-II	✓	✓	✓	✓
PB04ACOM22	Knowledge Management-II	✓	✓	✓	✓
PB04ACOM23	Leadership Skills-II	✓	✓	✓	✓
PB04CCOM21	Research Methodology-II			✓	✓
PB04CCOM22	Entrepreneurship Development-II	✓	✓	✓	✓
PB04CCOM23	Financial Management-II	✓	✓	✓	✓
PB04ECOM21	Corporate Accounting-II		✓	✓	✓
PB04ECOM22	Consumer Behaviour	✓	✓	✓	✓
PB04ECOM23	Strategic Human Resource Management	✓	✓	✓	✓
PB04ECOM24	Strategic Financial Management-II		✓	✓	✓
PB04ECOM25	Indirect Taxes-II	✓	✓	✓	✓
PB04ECOM26	Entrepreneurship Management	✓	✓	✓	✓
PB04ECOM27	Quantitative Techniques in Management		✓	✓	✓
PB04ECOM28	Regulatory Frame work of Banking and Insurance			✓	✓
Program	MBA				
POs					
PSOs					
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PM01CACC01	Fundamentals of Management	✓	✓	✓	✓
PM01CCIM01	Quantitative Techniques for Management-I	✓	✓	✓	✓
PM01CECO01	Managerial Economics	✓	✓	✓	✓
PM01CECO02	Managerial Accounting-I	✓	✓	✓	✓
PM01CMGT01	Management Skills Development	✓	✓	✓	✓
PM01CMGT02	Contemporary Issues in Management	✓	✓	✓	✓
PM01CMSD01	Indian Ethos and Organizational Behavior	✓	✓	✓	✓
PM01COTT01	Environment and Management	✓	✓	✓	✓
PM02CACC02	Quantitative Techniques for Management-II	✓	✓	✓	✓
PM02CECO01	Managerial Accounting-II	✓	✓	✓	✓
PM02CFIN01	Marketing Management	✓	✓	✓	✓
PM02CHRM01	Financial Management	✓	✓	✓	✓
PM02CMKT01	Production and Operations	✓	✓	✓	✓

	Management				
PM02CPOM01	Human Resource Management	✓	✓	✓	✓
PM02CQTT01	Research Methodology	✓	✓	✓	✓
PM02CRSM0	International Environment and Management				✓
PM03CMBA21	Business Policy and Strategic Management-I	✓	✓	✓	✓
PM03CMBA22	New Enterprise Management	✓	✓	✓	✓
PM03CMBA23	Business Legislation	✓	✓	✓	✓
PM03CMBA24	Comprehensive Project-I	✓	✓	✓	✓
PM03EMBA21	Financial Decision Analysis	✓	✓	✓	✓
PM03EMBA22	Management Control System	✓	✓	✓	✓
PM03EMBA23	Corporate Taxation	✓	✓	✓	✓
PM03EMBA24	Consumer Behaviour	✓	✓	✓	✓
PM03EMBA25	Sales and Distribution Management	✓	✓	✓	✓
PM03EMBA26	Marketing Research and Information Systems	✓	✓	✓	✓
PM03EMBA27	Management of Industrial Relations	✓	✓	✓	✓
PM03EMBA28	Compensation Management	✓	✓	✓	✓
PM03EMBA29	Management Training and Development	✓	✓	✓	✓
PM04CMBA21	Business Policy and Strategic Management-II	✓	✓	✓	✓
PM04CMBA22	International Economic Organization				✓
PM04CMBA23	Comprehensive Project-II	✓	✓	✓	✓
PM04EMBA21	Security Analysis and Investment Management	✓	✓	✓	✓
PM04EMBA22	International Financial Management				✓
PM04EMBA23	Management of Financial Institutions & Financial Services	✓	✓	✓	✓
PM04EMBA24	Advertising Management	✓	✓	✓	✓
PM04EMBA25	Marketing of Services	✓	✓	✓	✓
PM04EMBA26	International Marketing				✓
PM04EMBA27	Organizational Change and Intervention Strategies	✓	✓	✓	✓
PM04EMBA28	Human Resource Developments: Strategies and Systems	✓	✓	✓	✓
PM04EMBA29	Cross Cultural and Global Management	✓	✓	✓	✓

Program	LLM (Business Law)
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POs	<p>PO1 Business Law course gives an in-depth valid knowledge of issues such as corporate governance and business debt.</p> <p>PO2 To understand the practical difficulties and firm experience when meeting their valid obligations and complying with executive frameworks.</p> <p>PO3 To manage multiple cases, clients, and legal activities which carry different deadlines?</p>
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PSOs	<p>PSO1 To understand the legal departments of public sector and private sector organizations.</p> <p>It provides in depth study of international and national regulatory bodies.</p> <p>PSO2 To ensure that all business strategies, processes and actions are complying with the relevant local, federal, and international and national laws.</p> <p>PSO3 To examining and report any existing or potential legal issues to the authorities.</p>
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Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name

PL01CLBL21	Indian Constitutional Law The New Challenges-I			✓	
PL01CLBL22	Law and Social Transformation in India			✓	
PL01ELBL21	Law of Industrial & Intellectual Property-I				✓
PL01ELBL22	Banking Law-I				✓
PL01ELBL23	Corporate Finance-I				✓
PL02CLBL21	Indian Constitutional Law The New Challenges-II			✓	
PL02CLBL22	Jurisprudence				✓
PL02ELBL21	Law of Industrial & Intellectual Property-II				✓
PL02ELBL22	Banking Law-II				✓
PL02ELBL23	Corporate Finance-II				✓
PL03CLBL21	Judicial Process				✓
PL03CLBL22	Legal Education And Research Methodology				✓
PL03ELBL21	Law Of Export Import Regulation				✓
PL03ELBL22	Legal Regulation Of Economic Enterprise				✓
PL03ELBL23	Insurance Law			✓	
PL04CLBL21	Dissertation + Viva Voce	✓	✓	✓	
PL04CLBL22	Class Room Teaching	✓			
PL04CLBL23	Doctrinal Research				
PL04CLBL24	Non Doctrinal Research				
PL04CLBL24	Clinical Research Report	✓			
Program	LLM (Criminal Law)				
POs	PO1 To understand and apply principles of professional ethics. PO2 To provide a Platform for self-employment by developing professional skills under criminal law.				
PSOs	PSO1 To understand current issues and contemporary debates in criminal law and criminal justice. PSO2 To understand fundamental principles of substantive and procedural criminal law.				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PL01CLCR21	Indian Constitution Law: the New Challenges -I			✓	
PL01CLCR22	Law and Social Transformation in India			✓	
PL01ELCR21	Principles of Criminal Law				
PL01ELCR21	Comparative Criminal			✓	✓
PL01ELCR23	Penology: Treatment of Offenders			✓	✓
PL02CLCR21	Indian Constitution Law: the New Challenges -II			✓	
PL02CLCR22	Jurisprudence			✓	✓
PL02ELCR21	International Humanitarian Law				✓
PL02ELCR22	Privileged Class Deviance			✓	✓
PL02ELCR23	Juvenile Delinquency			✓	
PL03CLCR21	Judicial Process			✓	✓
PL03CLCR22	Legal Education and Research Methodology			✓	✓
PL03ELCR21	Drug Addiction, Criminal Justice and Human Rights			✓	✓

PL03ELCR22	Police and Criminal Justice System		✓	✓	✓
PL03ELCR23	Forensic Science and Criminal Investigation			✓	✓
PL04CLCR21	Dissertation+ Viva Voce	✓	✓	✓	
PL04CLCR22	Class Room Teaching	✓			
PL04CLCR23	Doctrinal Research	✓			
PL04CLCR24	Non-Doctrinal Research				
PL04CLCR25	Clinical Research Report	✓			
Program	MEd				
POs	<p>PO1 Professional preparation of teacher educators who would be equipped with the knowledge and competencies to facilitate and conduct initial preparation and continuing professional development teachers.</p> <p>PO2 To provide coherent perspective – socio-historical, political-economic, philosophical, and psychological to make sense of education – its policies, systems, institutions, practices and processes.</p> <p>PO3 To understand and practice to logical balance between theory and field exposure</p> <p>PO4 Professional preparation and continuing professional development of students in turn need teachers educators who are themselves professional teacher and who have through a process of critical scrutiny of theory, critical reflection on practices as well as doing research, deepened their understanding of the larger societal factors them circumscribe the context and scope of the core education processes, the nature and structure of knowledge that the learners construct and develop and the dynamics played out in the psychic and social world of the learners.</p> <p>PO5 To prepare teacher educators; however, in the current developing scenario in education it should also cater adequately to academic pursuits like curriculum and textbook development, research, policy analysis, and educational administration.</p> <p>PO6 Service provided with a relationship characterized by desire to help and with a sense of integrity and authorized by an institutional body.</p> <p>PO7 A wider understanding of human knowledge, an idea of epistemic structure of disciplines other than one's OWN also will be necessary for a teacher educator to situate her own work in the curriculum, and educational perspective.</p>				
PSOs	<p>PSO1 Comparing a view on selected contemporary western and Indian theories related to learning and development.</p> <p>PSO2 Explaining the psychological basis in different situations that make learning happened.</p> <p>PSO3 Describe the interdisciplinary view of education with reference to history, polity and economy.</p> <p>PSO4 Determine the quality of life and explain its relation with education.</p> <p>PSO5 Explain the characteristics and roles of a teacher in democratic classroom.</p> <p>PSO6 To describe concept and need of educational research.</p> <p>PSO7 To identify research problem.</p> <p>PSO8 Synthesis the academic knowledge of prospective teacher educator.</p> <p>PSO9 Use advance pedagogies and classroom techniques, research orientated and solves their educational problem through research.</p> <p>PSO10 Organize academic representation with effective writing skill.</p> <p>PSO11 To comprehend and critically assess writings that reflect multicultural images and perspectives</p> <p>PSO12 Explain and analyse different soft skills in teaching profession.</p> <p>PSO13 Define interpersonal relationships to adapt life skills.</p>				
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name					
PE01CMD201	Psychology of learning and Human Development			✓	✓
PE01CMD202	Historical, Political & Economic			✓	

	concerns of Education				
PE01CMD203	Educational Studies	✓	✓	✓	
PE01CMD204	Introduction to Research in Education		✓	✓	✓
PE01FMD205	Academic Writing		✓	✓	✓
PE01FMD206	Self-Development and Activities	✓	✓	✓	
PE02CMD201	Philosophical foundation of Education			✓	
PE02CMD202	Sociological foundation of Education		✓	✓	
PE02CMD203	Curriculum studies		✓	✓	
PE02CMD204	Teacher Education Directions		✓	✓	✓
PE02CMD205	Dissertation	✓	✓		
PE02CMD206	Internship in a TE1	✓			
PE03CMD201	Advanced Research Methodology in Education			✓	✓
PE03CMD202	Pre-Service Teacher Education - II	✓			
PE03CMD203	Dissertation	✓	✓		
PE03CMD204	Internship (Specialization in School)	✓			
PE03EMD201	System of Elementary Education in India			✓	
PE03EMD202	Contemporary Elementary Teacher Education in India			✓	
PE03EMD203	Contemporary Secondary Teacher Education in India			✓	
PE03EMD204	Secondary Education in India and Policy Perspectives			✓	
PE03FMD201	Academic Writing Development	✓	✓	✓	✓
PE04EMD2A1	Inclusive Strategies and Education for Children with Diverse Needs		✓	✓	
PE04EMD2A3	Inclusive education: Policy perspectives and related aspects			✓	
PE04EMD2B1	Introduction to Guidance and Counselling			✓	
PE04EMD2B2	School Guidance Programme	✓	✓	✓	
PE04EMD2B3	Career Development and Guidance	✓	✓	✓	
PE04EMD2C1	Educational Measurement & Evaluation			✓	
PE04EMD2C2	Psychological Measurement		✓	✓	
PE04EMD2C3	Statistical Methods of Educational Research			✓	✓
PE04EMD2D1	Educational Management and Organization		✓	✓	
PE04EMD2D2	Dimensions of Educational Organization		✓	✓	✓
PE04EMD2D3	Total Quality Management in Education		✓	✓	✓
PE04EMD2E1	Foundations of Curriculum		✓	✓	✓
PE04EMD2E2	Curriculum Development	✓	✓	✓	✓
PE04EMD2E3	Curriculum Transaction	✓	✓	✓	✓
PE04EMD36	Communication Skills in Education				
PE04EMD2F1	Educational technology and ICT			✓	✓
PE04EMD2F2	Information And Communication Technology In Education				
PE04EMD2F3	Educational Technology For Teacher Educators			✓	✓
PE04CMD201	Dissertation	✓	✓	✓	