

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
MANGALORE UNIVERSITY  
(Accredited by NAAC Grade)



ಕ್ರಮಾಂಕ/No. : MU/ACC/CR.5/2024-25/A2

ಕುಲಸಚಿವರ ಕಛೇರಿ

ಮಂಗಳಗಂಗೋತ್ರಿ - 574 199

Office of the Registrar

Mangalagangothri - 574 199

ದಿನಾಂಕ/Date:05.02.2025

**NOTIFICATION**

Sub: List of courses of Post Graduate programmes offering at  
Mangalore University.

Ref: Academic Council approval vide agenda

No.: ಎಸಿಸಿ:ಶೈ.ಮ.ಸಾ.ಸ.3:9 (2024-25) dtd 08.01.2025.

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The list of courses having focus on Employability, Entrepreneurship, skill development and relevant to Gender, Environment, sustainability, Human Values and Professional Ethics to be covered under various Post graduate programmes of Mangalore University has been approved by the Academic Council at its meeting held on 08.01.2025 is hereby notified.

Copy of the list shall be downloaded from the University Website  
([www.mangaloreuniversity.ac.in](http://www.mangaloreuniversity.ac.in)).

  
REGISTRAR

To,

1. The Registrar (Evaluation), Mangalore University.
2. The Chairpersons of Post graduate Departments /Co-ordinators Post Graduate programmes, Mangalore University, Mangalagangothri.
3. The Director, IQAC, Mangalore University.
4. The Superintendent (ACC), O/o the Registrar, Mangalore University.
5. The Asst. Registrar (ACC), O/o the Registrar, Mangalore University.
6. The Director, DUIMS, Mangalore University – with a request to publish in the website.
7. Guard File.

# MANGALORE UNIVERSITY

## Courses having focus on employability/ entrepreneurship/ skill development offered by the University

Name of the Department/Program	Course Code	Name of the Course
Economics	EC 405 (B)	Industrial Economics
	ECS 454 (C)	Statistical Techniques for Economics Analysis
	ECE 455	Indian Economy: Policies and Programmes
	EC501	Public Economics
	EC551	International Economics
	ECH552	Econometrics II
	EC553	Project Report Preparation
	ECS 554 (B)	Financial Economics
	EC 554 (C)	Managerial Economics
English	ENS 408	The early Indian novel
	ENH 453	English Language: Structure and Usage
	ENSC 457(A)	Shakespeare in Kannada Translation
	ENS 553	Teaching of English as a Second Language
History	HSH.401	Society and Polity in Early India (up to C.E 2 <sup>nd</sup> C.)
	HSH.402	Colonialism and Nationalism in East Asia since 1800
	HSH.403	Colonialism in India
	HSH.451	Making of India- A Nation
	HSH.452	State, Society and Economy in Medieval India (C.E. 1206-1757)
	HSH.453	Colonialism and Nationalism in West Asia
	HSE.455	Social Reform Movements in India – Select Themes
	HSH.501	Philosophy and Methods of History
	HSH.502	Modern European Revolutions
	HSH.503	The Contemporary World
	HSS.504	Modern Karnataka (c.AD 1750-1956)
	HSE.505	India's Struggle for Freedom 1857-1947
	HSH.551	Historiography in Modern World
	HSH.552	Thinkers of Modern India
	HSS.553	Society, Economy and Polity under Vijayanagara
	HSS.554	State and society in Contemporary India
	HSP.555	Project Work
Kannada	KNS 503	Folklore Science: Fieldwork and Documentation
	KNS 504	Kannada Literature and Mass media
	KNS 505	Translation theory and practice
	KNH 553	Kannada and Computer Usage
Mass Communication and Journalism	JMH 401	Communication Theory
	JMH 402	News Reporting and Writing
	JMH 403	Editing Practice
	JMS 404	Development of Media
	JMS 405	Advertising
	JMH 451	Media Law and Ethics
	JMH 452	Feature Writing
	JMH 453	Photography and Photo Journalism
	JMS 454	Development Communication

Mass Communication and Journalism	JMS 455	Magazine Journalism
	JME 457	Communication Skills
	JMH 501	Media Research Methods
	JMH 502	Media Management
	JMS 503	Corporate Communication and PR
	JMS 504	Radio Broadcasting
	JMS 505	International Communication
	JME 509	Advertising and PR
	JMH 551	Television Programme Production
	JMH 552	New Media Technology
	JMS 554	Environmental Communication
	JMS 556	Film Studies
Political Science	PSS 404	Political Sociology in India
	PSS 405	Politics in Karnataka
	PSS 453	Human Rights
	PSS 503	European Union: Structure and Processes
	PSS 504	Media, political communication and politics
	PSS 505	International political economy
	PSE 510	Decentralization and Panchayath System in India
	PSE 511	Maritime Studies
	PSH 552	Government and politics in India
Sociology	SYH 402	Research Methodology
	SYS 408	Sociology of Tribes
	SYS 409	Sociology of Environment
	SYH 452	Social Statistics
	SYS 453	Sociology of Health and Sanitation
	SYS 455	Sociology of Ageing
	SYS 456	Sociology of Disaster and Social Crisis
	SYS 457	Sociology of Backward Classes
	SYS 458	Sociology of Leisure and Sports
	SYS 503	Crime and Society
	SYS 505	Social Psychology
	SYS 507	Human Rights and Social Justice
	SYS 508	Sociology of Minorities
	SYE 510	Sociology of Sanitation
	SYS 554	Sociology of Development
	SYS 555	Industry and Society
	SYS 556	Social Entrepreneurship
	SYS 557	Sociology of Science and Technology
	SYS 558	Sociology of Media and Communication
Analytical Chemistry	CA H 401	Inorganic Chemistry
	CA H 402	Organic Chemistry
	CA H 403	Physical Chemistry
	CA S 404	Inorganic Spectroscopy & Analytical Techniques
	CA S 406	Molecular Spectroscopy and Diffraction Techniques
	CA P 407	Inorganic Chemistry Practicals-1
	CA P 408	Organic Chemistry Practicals-1
	CA P 409	Physical Chemistry Practicals-1
	CA H 451	Advanced Inorganic Chemistry
	CA H 452	Advanced Organic Chemistry
	CA H 453	Advanced Physical Chemistry

Analytical Chemistry	CA S 454	Organic Spectroscopic Techniques
	CA E 456	Environmental, Electro-and Polymer Chemistry
	CA P 457	Inorganic Chemistry Practicals-II
	CA P 458	Organic Chemistry Practicals-II
	CA P 459	Physical Chemistry Practicals-II
	CA H 501	Principles of Analytical Chemistry
	CA H 502	Bioanalytical and Radiochemical Techniques
	CA H 503	Chromatographic Separation Techniques
	CA S 505	Analytical Chemistry of Polymers
	CA E 506	Analytical and Green Chemistry
	CA P 507	Analytical Chemistry Practicals-III
	CA P 508	Analytical Chemistry Practicals-IV
	CA P 509	Analytical Chemistry Practicals-V
	CA H 551	Applied Analysis
	CA H 552	Optical Methods of Analysis
	CA H 553	Process Analytical Chemistry
	CA S 554	Environmental Analytical Chemistry
	CA S 556	Separation Techniques
	CA P 557	Analytical Chemistry Practicals-VI
	CA P 558	Analytical Chemistry Practicals-VII
	CA P 559	Project Work & Dissertation
Applied Botany	BOH403(REV22)	Microbiology
	BOS457(REV22)	Ethnobotany and IPR
	BOS505(REV22)	Plant tissue culture
	BOS506(REV22)	Seed technology
	BOS508(REV22)	Phytochemical methods
	BOE513(REV22)	Plant Propagation
Applied Zoology	ZOH 401	Animal Taxonomy and Evolution
	ZOH 402	Biological Chemistry
	ZOS 403	Comparative Anatomy
	ZOS 404	Tools and techniques in biology
	ZOS 405	Entomology
	ZOH 451	Animal Cell Biotechnology
	ZOH 452	Toxicology and Cancer biology
	ZOS453	Molecular Cell Biology
	ZOS 454	Comparative Physiology
	ZOS 455	Adaptation Biology
	ZOE456	Human Genetics
	ZOE 457	Ornamental Fish Production and Management
	ZOH 501	Genetics and Quantitative Biology
	ZOH 502	Nutrition and Metabolism
	ZOS 503	Fisheries and Aquatic biology
	ZOS 504	Animal breeding
	ZOS 505	Environmental Biology
	ZOS506	Infectious diseases
	ZOE 507	Vermitechnology
	ZOH 551	Biology of Immune System
	ZOP 552	Zoology Project work
	ZOS 553	Wildlife Conservation and Management
	ZOS554	Neurobiology and Behaviour
	ZOS 555	Statistics and Bioinformatics

Biochemistry	BCS 405	General Microbiology
	BCP 406	Practical Biochemical Methods
	BCP 407	Practical General Biochemistry
	BCP 408	Practical Bioanalytical techniques
	BCS 454	General Virology
	BCE 457	Biochemistry in Day-To-Day Life
	BCP 458	Practical Enzymology
	BCP 459	Practical Clinical Biochemistry
	BCP 507	Practical Cell Biology
	BCE 508	Health and Disease
	BCP 510	Practical Bioprocess Technology
	BCH 551	Genetic Engineering
	BCC 554	Microbial Biochemistry
	BCS 555	Bioinformatics, Biostatistics & Nano- Biotechnology
	BCS 556	Nanotechnology
	BCP/D 557	Project work / Dissertation
Biosciences	BSH401	Biochemistry
	BSH402	Cell Biology
	BSH403	Basic Microbiology
	BSS404	Genetics
	BSS405	Biochemical Techniques
	BSP406	Biochemistry Lab
	BSP407	Cell Biology Lab
	BSP408	Basic Microbiology Lab
	BSP409	Genetics Lab
	BSP410	Biochemical Techniques Lab
	BSH451	Molecular Biology
	BSS453	Applied Microbiology
Biosciences	BSS454	Aquatic Biology
	BSS455	Metabolism and Bioenergetics
	BSP456	Molecular Biology Lab
	BSP458	Applied Microbiology Lab
	BSP459	Aquatic Biology Lab
	BSP460	Metabolism and Bioenergetics Lab
	BSH501	Animal Physiology
	BSH502	Plant Physiology
	BSS503	Applied Ecology
	BSS504	Immunology
	BSS505	Ecotoxicology
	BSP506	Animal Physiology Lab
	BSP507	Plant Physiology Lab
	BSP508	Applied Ecology Lab
	BSP509	Immunology Lab
	BSP510	Ecotoxicology Lab
	BSH551	Biotechnology
	BSS552	Environmental Physiology
	BSS553	Developmental Biology
	BSP555	Biotechnology Lab
	BSP556	Environmental Physiology Lab
	BSP557	Developmental Biology Lab

Biotechnology	BTH 401	Biochemistry and Biophysics
	BTS 404	Enzymology
	BTP 406	Biochemistry and Biophysics
	BTP 407	Molecular Genetics
	BTP 408	Microbiology
	BTP 409	Enzymology
	BTH 411	Molecular Cell Biology
	BTS 412	Molecular Genetics
	BTP 413	Molecular Cell Biology
	BTH 414	Microbiology
	BTH 451	Molecular Biology
	BTS 454	Bioanalytical Techniques
	BTH 464	rDNA technology
	BTH 465	Immunotechnology
	BTP 466	rDNA technology
	BTP 467	Immunotechnology
	BTP 469	Molecular Biology
	BTS 513	Research Methodology and Bioinformatics
	BTP 514	Research Methodology and Bioinformatics
	BTH 551	Animal Biotechnology
	BTH 552	Environmental Biotechnology
	BTP 557	Environmental Biotechnology Lab
	BTP 561	Animal Biotechnology
Chemistry	CHH 401	Inorganic Chemistry
	CHH 402	Organic Chemistry
	CHH 403	Physical Chemistry
	CHS 404	Inorganic Spectroscopy & Analytical Techniques
	CHS 406	Molecular Spectroscopy and Diffraction Techniques
	CHP 407	Inorganic Chemistry Practicals-1
	CHP 408	Organic Chemistry Practicals-1
	CHP 409	Physical Chemistry Practicals-1
	CHH 451	Advanced Inorganic Chemistry
	CHH 452	Advanced Organic Chemistry
	CHH 453	Advanced Physical Chemistry
	CHS 454	Organic Spectroscopic Techniques
	CHE 456	Environmental, Electro-and Polymer Chemistry
	CHP 457	Inorganic Chemistry Practicals-II
	CHP 458	Organic Chemistry Practicals-II
	CHP 459	Physical Chemistry Practicals-II
	CH H 501	Coordination Chemistry
	CHH 502	Organic Reaction Mechanism and Heterocyclic Chemistry
	CHH 503	Solid State Chemistry
	CHS 504	Medicinal and Natural Products Chemistry
	CH E 506	Analytical and Green Chemistry
	CHP 507	Inorganic Chemistry Practicals-III
	CHP 508	Organic Chemistry Practicals-III
	CHP 509	Physical Chemistry Practicals - III
	CHH 551	Bioinorganic Chemistry
	CH H 552	Organic Synthetic Methods
	CHH 553	Electrochemistry and Reaction Dynamics

Chemistry	CHS 554	Organometallic Chemistry
	CHS 555	Polymer Chemistry
	CHP 557	Inorganic Chemistry Practicals -IV
	CHP 558	Physical Chemistry Practicals -IV
	CHP 559	Project Work & Dissertation
Computer Science	22CSH102	Advanced Data Structures and Algorithms
	22CSH104	Advanced Operating Systems
	22CSS105	Net Technology
	22CSS106	Android Programming
	22CSH201	Internet of Things
	22CSH202	Principles of Data Science
	22CSH203	Advanced Database Management Systems
	22CSS204	Image Processing
	22CSS206	Wireless Sensor Networks
	22CSS207	Mobile Computing
	22CSE213	Introduction to Information Technology
	22CSH301	Artificial Intelligence & Machine Learning
	22CSH302	Principles of Cyber Security
	22CSH303	Software Engineering
	22CSS305	Cloud Computing
	22CSS306	Natural Language Processing
	22CSS308	Block Chain Management
	22CSE313	Data Analytics Tools
MCA	22MCAH103	Object Oriented Programming
	22MCAH104	Advanced Data Structure and Algorithms
	22MCAS105	NET Technology
	22MCAH203	Data Communications and Computer Networks
	22MCAS204	Android Programming
	22MCAE213	Advanced Java Programming
	22MCAE215	Pattern Recognition
	22MCAE216	Cloud Computing
	22MCAH301	Artificial Intelligence & Machine Learning
	22MCAH302	Internet of Things
	22MCAS305	Image Processing
	22MCAE316	Block Chain Management
	22MCAE317	Natural Language Processing
Cyber Security	CSCS 404	Mathematical Foundations
	CSCS 405	Problem Solving using Python
	CSCH 452	Network Security
	CSCS 454	Design of Cryptographic Algorithms
	CSCS 455	Cyber Threat Intelligence
	CSCS 456	Cloud Computing & Security
	CSCS 458	Internet of Things
	CSCH 501	Digital Forensics
	CSCS 506	Cyber Laws
	CSCS 508	Big Data Analytics
Electronics	ELH 403	Microprocessors and Microcontroller
	ELS 404	Programming in C
	ELS 407	Verilog HDL
	ELS 454	Embedded System Design
	ELS 457	Programming with Embedded Platforms



Electronics	ELH 501	Digital Image Processing
	ELS 507	PIC Microcontroller
	ELS 508	ARM Processor
	ELP 512	VLSI Practical using CAD Tools
	ELP 551	Electronics Project
Environmental Science	ESH 401	Environmental Chemistry
	ESH 402	Environmental Geology
	ESH 403	Environmental Microbiology
	ESP406	Environmental Chemistry Lab
	ESP407	Environmental Geology Lab
	ESP408	Environmental Microbiology Lab
	ESP410	Environmental Biotechnology Lab
	ESH 451	Water and Wastewater Management
	ESS 453	Advanced Instrumentation
	ESS 454	Environmental Toxicology
	ESS 455	Remote Sensing and GIS
	ESP 456	Water and Wastewater Management Lab
	ESP 459	Environmental Toxicology Lab
	ESP 460	Remote Sensing and GIS Lab
	ESP506	Environmental Biology Lab
	ESP507	Solid Waste Management Lab
	ESH 551	Conservation of Biodiversity
	ESS 553	Environmental Pollution and Management
	ESP 554	Conservation of Biodiversity Lab
	ESP 556	Environmental Pollution and Management Lab
Food Science and Nutrition	FNH 401	Food Science
	FNH 402	Principles of Nutrition
	FNH 403	Human Physiology
	FNS 404	Nutritional Biochemistry
	FNP 406	Food Science
	FNP 407	Principles of Nutrition
	FNP 408	Human Physiology
	FNP 409	Nutritional Biochemistry
	FNS 411	Analytical Techniques in Food Science
	FNP 412	Analytical Techniques in Food Science
	FNH 451	Vitamins in Human Nutrition
	FNH 452	Minerals in Human Nutrition
	FNS 453	Life Span Nutrition
	FNS 455	Food Packaging
	FNS 456	Food Safety and Quality Control
	FNP 457	Vitamins in Human Nutrition
	FNP 458	Minerals in Human Nutrition
	FNP 459	Life Span Nutrition
	FNP 461	Food Packaging
	FNP 462	Food Safety and Quality Control
	FNE 463	Food Safety
	FNE 464	Food Preservation
	FNS 465	Food Microbiology
	FNP 466	Food Microbiology
	FNH 501	Clinical Nutrition and Dietetics – I
	FNH 502	Community Nutrition and Statistics



Food Science and Nutrition	FNS 503	Dairy Technology
	FNS 504	Principles of Food Processing
	FNS 505	Post Harvest Technology
	FNS 506	Functional Foods
	FNP 507	Clinical Nutrition and Dietetics – I
	FNP 508	Community Nutrition and Statistics
	FNP 509	Dairy Technology
	FNP 510	Principles of Food Processing
	FNP 511	Post Harvest Technology
	FNP 512	Functional Foods
	FNE 513	Nutrition for Health
	FNE 514	Diet and Disease
	FNH 551	Clinical Nutrition and Dietetics – II
	FNH 552	Food Preservation
	FNS 553	Food Fortification
	FNS 554	Sports Nutrition
	FNS 555	Food Service Management
	FNP 556	Clinical Nutrition and Dietetics – II
	FNP 557	Food Preservation
	FNP 558	Project Work / Internship
Geography	GIH 401	Cartography
	GIH 402	Remote sensing and Photogrammetry
	GIH 403	Geographical Inf. System (GIS)
	GIS 404	Fundamentals of Earth Sciences
	GIP 405	RS and Photogrammetry (L)
	GIP 406	Earth Science (L)
	GIH 451	1 DBMS and Spatial Statistics
	GIH 452	Digital Image Processing
	GIS 453	Advanced GIS
	GIS 454	Applied geomorphology and geo environmental science
	GIP 455	Geomorphology and Geostatistics (L)
	GIP 456	GIS and DBMS (L)
	GIE 457	Geoinformatics
	GIH 501	RS & GIS in Marine Resources and Coastal Zone Management
	GIH 502	RS & GIS in Land and Water Resources
	GIS 503	RS & GIS in Urban Planning and Disaster Management
	GIS 504	RS & GIS in Agriculture and Forestry
	GIS 505	Computer Programming
	GIP 506	DIP and Comp Programming (L)
	GIP 507	RS & GIS in Water and Marine Resources (L)
	GIE 508	Geoinformatics of Coastal Environments
	GIH 551	Geoinformatics Project, Dissertation and Viva-voce
	GYP 405	Techniques in Physical Geography
	GYP 406	Interpretation of Indian Weather and Topo maps
	GYH 453	Basics of Remote Sensing
	GYP 459	Statistical Methods in Geography
	GYP 460	Techniques of Mapping and Mapping Analysis
	GYH 503	Fundamentals of Cartography, GIS & GNSS
	GYS 504	Disaster Studies

Geography	GYS 505	Coastal Geography
	GYP 509	Interpretation of Aerial Photography and Satellite Images
	GYP 510	Application of GIS & GNSS
	GYS 555	Social Geography
	GYP 557	Techniques in Human Geography
	GYP 558	Dissertation and field study
Human Consciousness & Yogic Science	YSH 405	Practical I : Kriyas and Asanas
	YSH 406	Practical II - Asanas
	YSH 453	Basics of Integral Approach to Yogic Science-I
	YSP 455	Practical III: Kriyas and Asanas
	YSP 456	Practical IV: Asanas
	YSH 501A	Basics of Integral Approach to Yogic Science-II
	YSS 502A	Basic Principles of Yoga Therapy
	YSS 504A	Yoga therapy Practices
	YSP 506A	Practical - VI: Pranayama and Meditation
	YSE 507	Scientific Approach of Yoga
	YSS 554A	Practical - VII: Advanced Practices
Industrial Chemistry	ICH 402	Organic Chemistry-I
	ICS 405	Paper and Textile technology
	ICP 406	Inorganic Chemistry Practicals-I
	ICP 407	Organic Chemistry Practicals-I
	ICP 408	Physical Chemistry Practicals-I
	ICH 451	Analytical Chemistry
	ICH 453	Energy Systems, Colloids And Petrochemicals
	ICS 454	Chemical Engineering Technology
	ICP 456	Techniques in quantitative analysis
	ICP 457	Estimations and extractions in organic chemistry
	ICP 458	Electroanalytical techniques
	ICH 501	Spectroscopic Techniques
	ICH 502	Industrial Catalysis and Green Chemistry
	ICH 503	Synthetic, Heterocyclic and Medicinal Chemistry
	ICP 506	Synthesis of complexes, catalysts and estimation of alloys
	ICP 507	Systematic qualitative analysis and identification of organic compounds
	ICP 508	Synthesis, characterization and applications of Polymers and composites
	ICP 551	Industrial Chemistry Project Report
	ICP 552	Industrial Chemistry Project Viva-voce
Library and Information Science	LSP554	Dissertation and Viva Voce
	LSS556	Practical Experience / Internship and Library Tour
Marine Geology	MGH 401	Mineralogy and Geochemistry
	MGH 402	Petrology
	MGH 403	Stratigraphy and Palaeontology
	MGP 404	Mineralogy and Geochemistry (Lab)
	MGP 405	Petrology (Lab)
	MGS 406	Geomorphology and Geodynamics
	MGH 451	Structural geology and hydrogeology
	MGP 452	Structural geology and palaeontology Lab
	MGS 453	Environmental Geology
	MGS 454	Meteorology and Climatology

Marine Geology	MGS 455	Remote Sensing and Photogrametry
	MGP 456	Hydrogeology, Geo-statistics & Comp Appl (Lab)
	MGE 457	Geosciences (Open Elective )
	MGH 501	Oceanography - I
	MGH 502	Oceanography – II
	MGS 503	Exploration and Engineering Geology
	MGS 504	Economic Geology and Mining Geology
	MGS 505	GIS and GPS
	MGP 506	Remote Sensing & GIS (Lab)
	MGP 507	Physical Oceanography and surveying (Lab)
	MGE 508	Ocean & Atmospheric Science
	MGP 551	Marine Geology Project Work
Materials Science	MSH 401	Methods of Mathematical Physics
	MSH 402	Electromagnetic Theory and Electronics
	MSH 403	Elements of Materials Sciences - I
	MSH 404	Thermodynamics and Chemistry of Metals
	MSP 405	Materials Science Lab - I
	MSP 406	Materials Science Lab - II
	MSH 451	Quantum Mechanics - I
	MSH 452	Classical Mechanics and Statistical Physics
	MSH 453	Elements of Materials Sciences - II
	MSS 454	Surface Phenomena and Electrochemistry
	MSP 455	Materials Science Lab - III
	MSP 456	Materials Science Lab - IV
	MSE 457	Science of Materials in Daily Life
	MSH 501	Dielectric Materials
	MSH 502	Solid State Engineering Materials - I
	MSS 503	Thin Films
	MSH 504	New Materials and Technologies
	MSS 505	Polymer Science
	MSS 506	Nanoscience and Nanotechnology - I
	MSS 507	Crystal Growth
	MSS 508	Quantum Mechanics - II
	MSP 509	Materials Science Lab - V
	MSE 510	Materials in Energy Production
	MSH 551	Magnetic Materials and Magnetic Resonance
	MSH 552	Solid State Engineering Materials - II
	MSS 553	Materials Testing and Characterization
	MSS 554	Composite Materials
	MSS 555	Nanoscience and Nanotechnology - II
	MSP 556	Materials Science Lab - VI
	MSP 557	Materials Science Lab - VII
	MSP 558	Mini Project
Mathematics	MTH 401	Algebra I
	MTH 402	Linear Algebra I
	MTH 403	Real Analysis I
	MTS 404	Numerical Analysis
	MTH 452	Algebra II
	MTH 453	Real Analysis II
	MTH 454	Topology
	MTS 456	Ordinary Differential Equations

Mathematics	MTH 502	Complex Analysis I
	MTH 503	Measure and Integration
	MTH 504	Multivariate Calculus and Geometry
	MTS 505	Advanced Numerical Analysis
	MTS 507	Graph Theory
	MTS 513	Applied Algebraic Coding Theory
	MTS 515	Design and Analysis of Algorithms
	MTH 552	Complex Analysis II
	MTH 553	Functional Analysis
	MTS 554	Partial Differential Equations
	MTS 561	Cryptography
Microbiology	MBH-401	Bioanalytical Techniques in Microbiology
	MBH-402	Bacteriology and Virology
	MBH-403	Phycology and Mycology
	MBH 404	Microbial Genetics
	MBP 405	Microbial Techniques
	MBP 406	Microbial Physiology
	MBS 407	Microbial Cell Biology
	MBS-408	Microbial Diversity
	MBS-409	Biomolecules
	MBH-451	Genetic Engineering
	MBH-452	Food Microbiology
	MBH-453	Medical Microbiology & Immunology
	MBP-454	Genetic Engineering & Food Microbiology
	MBP-455	Immunology & Medical Microbiology
	MBS-456	Microbial Biotechnology
	MBS-457	Phytopathology
	MBS-458	Immunotechnology
	MBH 501	Molecular Biology
	MBH 502	Environmental Microbiology
	MBH 503	Biostatistics and Bioinformatics
	MBP 504	Molecular Biology
	MBP 505	Environmental Microbiology, Biostatistics and Bioinformatics
	MBS 506	Metagenomics & Proteomics
	MBS 507	Marine Microbiology
	MBS 508	Cancer Biology
	MBE 509	Microbial Techniques
	MBE 510	Pharmacology and Pharmacognosy
	MBH 551	Agricultural Microbiology
	MBH-552	Industrial Microbiology
	MBP-553	PROJECT WORK
	MBS 554	Bio-Nanotechnology
	MBS 555	Research Methodology
Medical Physics	MPH 401	Fundamentals of Physics
	MPH 402	Nuclear and Radiation Physics
	MPH 403	Radiological Mathematics
	MPS 405	Basic Electronics and Biomedical Instrumentation
	MPS 406	Biophysics
	MPP 407	Medical Physics Practical – I
	MPP 408	Medical Physics Practical – II

Medical Physics	MPH 451	Radiation Detection and Measurement
	MPH 452	Radiation Dosimetry and Standardization
	MPS 454	Biostatistics Biomathematics and Computers
	MPE 455	Industrial Application of Radiation and Radioisotopes
	MPP 456	Medical Physics Practical – III
	MPP 457	Medical Physics Practical – IV
	MPP 458	Medical Physics Practical – V
	MPP 459	Medical Physics Practical – VI
	MPH 501	Clinical Radiobiology
	MPH 502	Physics of Medical Imaging
	MPS 503	Physics of Nuclear Medicine
	MPS 504	Clinical Aspects of Radiation Therapy
	MPS 505	IPR, Biosafety & Bioethics
	MPE 506	Applications of Radiation and Radioisotopes in Health and Agriculture
	MPP 507	Medical Physics Practical – VII
	MPP 508	Medical Physics Practical –VIII
	MPH 551	Physics of Classical Radiotherapy
	MPH 553	Radiation Protection Standards and Safety
	MPS 554	Nuclear Reactors, Particle Accelerators, Industrial Applications of Radiation and Environmental Radioactivity
	MPS 555	Research Methodology & Communication
	MPP 556	Project
Organic Chemistry	OC H 401	Inorganic Chemistry
	OC H 402	Organic Chemistry
	OC H 403	Physical Chemistry
	OC S 404	Inorganic Spectroscopy & Analytical Techniques
	OC S 406	Molecular Spectroscopy and Diffraction Techniques
	OCP 407	Inorganic Chemistry Practicals-1
	OCP 408	Organic Chemistry Practicals-1
	OCP 409	Physical Chemistry Practicals-1
	OC H 451	Advanced Inorganic Chemistry
	OC H 452	Advanced Organic Chemistry
	OC H 453	Advanced Physical Chemistry
	OC S 454	Organic Spectroscopic Techniques
	OC E 456	Environmental, Electro-and Polymer Chemistry
	OCP 457	Inorganic Chemistry Practicals-II
	OCP 458	Organic Chemistry Practicals-II
	OCP 459	Physical Chemistry Practicals-II
	OCH 501	Organic Reaction Mechanism
	OCH 502	Synthetic Reagents and spectroscopic techniques
	OCH 503	Advanced Heterocyclic Chemistry
	OC S 505	Bioorganic Chemistry
	OC E 506	Analytical and Green Chemistry
	OCP 507	Organic Chemistry Practicals-III
	OCP 508	Organic Chemistry Practicals-IV
	OCP 509	Organic Chemistry Practicals-V
	OCH 551	Organic Synthetic Methods
	OCH 552	Medicinal Chemistry
	OCH 553	Natural Products Chemistry
	OCS 554	Synthetic Polymers, Dyes & Pesticides

Organic Chemistry	OC S 555	Separation Techniques and Organometallic Chemistry
	OCP 557	Organic Chemistry Practicals-VI
	OCP 558	Organic Chemistry Practicals-VII
	OCP 559	Project Work & Dissertation
Physics	PHH 401	Methods of Mathematical Physics - I
	PHH 402	Quantum Mechanics I
	PHH 403	Classical Mechanics
	PHH 404	Electrodynamics
	PHP 405	Physics Practicals I (General)
	PHP 406	Physics Practicals II (General)
	PHH 451	Mathematical Physics II
	PHH 452	Quantum Mechanics II
	PHH 453	Nuclear and Radiation Physics
	PHH 454	Condensed Matter Physics and Electronics
	PHE 455	Energy studies
	PHP 456	Physics Practicals III (General)
	PHP 457	Physics Practicals IV (Electronics)
	PHH 501	Atomic and Molecular Physics
	PHH 502	Thermodynamics and Statistical Physics
	PHS 503	Condensed Matter Physics I
	PHS 504	Electronics I
	PHS 505	Nuclear Physics I
	PHS 506	Condensed Matter Physics II
	PHS 507	Electronics II
	PHS 508	Nuclear Physics II
	PHE 509	Radiation Sources and Hazards
	PHP 510	Condensed Matter Physics - Practicals I
	PHP 511	Electronics - Practicals I
	PHP 512	Nuclear Physics – Practicals I
	PHP 513	Condensed Matter Physics - Practicals II
	PHP 514	Electronics - Practicals II
	PHP 515	Nuclear Physics – Practicals II
	PHH 551	Lasers, Vacuum Techniques and Cryogenics
	PHH 552	Astrophysics and Relativity
	PHS 553	Condensed Matter Physics III
	PHS 554	Electronics III
	PHS 555	Nuclear Physics III
	PHS 556	Condensed Matter Physics IV
	PHS 557	Electronics IV
	PHS 558	Nuclear Physics IV
	PHP 559	Physics Project work
Statistics	STH 404	Theory of sampling
	STP 405	Statistics Practical I (Based on STH404)
	STP 406	Statistics Practical II (Excel & R Programming)
	STH 453	Theory of Point Estimation
	STH 454	Econometrics
	STS 455	Actuarial Statistics
	STP 456	Statistics Practical III (Based on ST454)
	STP 457	Statistics Practical IV (Based on ST 452,ST 453 & ST 455)
	STH 502	Testing of Hypothesis

Statistics	STH 503	Stochastic Processes
	STS 504	Time Series Analysis
	STP 506	Statistics Practical V (Based on STH 502 & STS 505)
	STP 507	Statistics Practical VI ( Based on STS 503 & STS 504)
	STH 551	Design and Analysis of Experiments
	STS 552	Operation Research
	STS 554	Financial Time Series
	STP 555	Statistics Practical VII (Based on Theory Courses)
	STP 556	Statistics Project work
	STS 557	Data Mining techniques
	STS 565	Data Science
Business Administration	MBAH 401	Modern Organisation and Management
	MBAH 402	Business Accounting and Finance
	MBAH 403	Organisational Behaviour and Communication
	MBAH 404	Information Technology and Business
	MBAS 405	Economics for Managers
	MBAS 406	Soft Skills
	MBAS 407	E- Commerce
	MBAS 409	Project Management.
	MBAS 410	Business Analytics
	MBAH 451	Human Resource Management
	MBAH 452	Marketing Management
	MBAH 453	Indian Business Environment
	MBAH 454	Business Research Methods
	MBAS 455	Operations Management
	MBAS 456	Business Ethics and Social Responsibility
	MBAS 457	Supply Chain Management
	MBAH 501	Entrepreneurship and Start-ups
	MBAH 502	Strategic Cost Management
	MBAH 503	Operations Research
	MBAS 504	Strategic Financial Management
	MBAS 505	Investment Analysis and Portfolio Management
	MBAS 506	Tax Planning
	MBAS 507	Marketing Research and Consumer Behaviour
	MBAS 508	Promotions and Distribution Management
	MBAS 509	Retail Management
	MBAH 551	International Business Environment
	MBAH 552	Business Administration Project Report
	MBAS 553	Behavioural Finance
	MBAS 554	International Financial Management
	MBAS 555	Corporate Restructuring
	MBAS 556	International Marketing Management
	MBAS 557	Services Marketing
	MBAS 558	Rural Marketing
MBA (Tourism & Travel Management)	TMH 404	Travel and Tour Operations
	TMS 407	Front office Management
	TMS 408	House Keeping Management
	TMH-451	Airport Handling and Air Ticketing
	TMH-453	World Geography for Tourism - I
	TMH-454	Hospitality Management



MBA (Tourism & Travel Management)	TMS-456	Marketing for Tourism
	TMH-501	World Geography for Tourism - II
	TMH 503	Event Management
	TMS-505	Cargo Management and Logistics Operations
	TMS-506	Entrepreneurship Development
	TMH-551	Destination Management
	TMH-552	Human Resource Management
	TMS-555	Customer Relationship Management
	TMS-556	Information Technology for Tourism
Commerce	CMS 401	Management Theory and Practice
	CMS 402	Business Economics
	CMS 403	Innovation in Business
	CMH 404	Business Statistics
	CMH 405	Management Science
	CMH 406	Advanced Financial Accounting
	CME 451	Personality Development
	CMS 452	Entrepreneurship Development
	CMS 453	Strategic Marketing Management
	CMS 454	Business, Industry and Commerce
	CMH 455	Business Research Methods
	CMH 456	International Business
	CMH 457	Advanced Cost Accounting
	CME 501	Personal Savings and Investment Management
	CMH 503	Business Ethics and CSR
	CMH 504	E-Commerce
	CMS 506	Capital Market Operations
	CMS 507	Human Resource Development
	CMS 508	Strategic Human Resource Management
	CMS 509	Trends in Indian Banking
	CMS 510	Management of Life Insurance
	CMS 511	Direct Taxes
	CMS 551	Retail Management
	CMS 552	Dissertation
	CMS 553	Risk and Insurance Management
	CMH 554	International Financial Management
	CMS 555	Financial Derivative Markets
	CMS 556	Portfolio Management
	CMS 557	Organizational Behaviour
	CMS 558	Labour Legislation
	CMS 559	Financial Services and Institutions
	CMS 560	Actuarial Management
	CMS 561	Corporate Tax Planning
M.Com (HRD)	CRH 401	Business Statistics
	CRH 402	Human Resource Management
	CRH 403	Advanced Financial Accounting
	CRS 404	Management Theory and Practice
	CRS 405	Labour Economics
	CRS 406	Employee Training & Development
	CRH452	Organisational Behaviour
	CRH453	Advanced Cost Accounting
	CRH454	Strategic Marketing Management

M.Com (HRD)	CRS455	Labour Legislation
	CRS457	Business Environment
	CRH502	Business Ethics and Corporate Social Responsibility
	CRH503	Internship
	CRH504	Strategic Human Resource Development
	CRH 507	Knowledge Management
	CRH 551	Performance and Talent Management
	CRH 553	Project Report
	CRS 556	Learning Interventions and Management
M.Ed.	MES 405	Communication and Expository Writing
	MEH 408	Development of ICT Material
	MEH 451	Teaching Strategies in Education
	MEH 453	Teacher Education Course - I
	MES458	Internship in Secondary School Institutions
	MES 503(b)	Curriculum,Pedagogy and assessment Practices in Secondary and Senior Secondary Education
	MEH 504	Methodology Research In Education - II
	MEH 505	Teacher Education Course- II
	MES 551(a) SP: 11	Theme A: Pedagogy, Technology and Assessment in Education Pedagogy and Methodology of Teaching Languages
	MES 551(b) SP:11	Theme A: Pedagogy, Technology and Assessment in Education Pedagogy and Methodology of Teaching Science
	MES 551 (c) SP:11	Theme A: Pedagogy, Technology and Assessment in Education Pedagogy and Methodology of Teaching Social Science
	MES 551 (d) SP:11	Theme A: Pedagogy, Technology and Assessment in Education Pedagogy and Methodology of Teaching Mathematics
	MES 551 (e) SP:11	Theme A: Pedagogy, Technology and Assessment in Education Pedagogy and Methodology of Teaching Commerce
	MES 553 SP:13	Theme A: Pedagogy, Technology and Assessment in Education Educational Technology
	MES 551 SP:11	Theme B: Management in Education Educational Management
	MES 552- SP:12	Theme B: Management in Education Institutional Management
	MES 553-SP:13	Theme B: Management in education Educational Leadership
	MEH 555	Internship in Teacher Education Institutions(TEI)
Physical Education	MDH 402	Principles and Methods of Sports Training
	MDH 403	Test, Measurement and Evaluation in Physical Education
	MDH 451	Fitness, Wellness and Life Style Management.
	MDH 453	Physiology of Exercise
	MDS 454	Sports Journalism and Mass Media
	MDH 458	Coaching lessons of track and field events/game specialization
	MDH502	Sports Psychology
	MDS503	Sports Sponsorship
	MDH 552	Biomechanics and Kinesiology