

## IV Semester

BSC HONOURS	R23ELE301	Semiconductor Devices and Materials
BSC HONOURSPHYSICS	R23PHY401 R23PHY401P R23PHY402 R23PHY402P R23PHY403  R23PHY403P  R23MCSC401 R23MCSC401P  R23MCSC402 R23MCSC402P  R23MDP401 R23SDP401 R20APSP401 R23MAT401  R23MAT401P  R23MAT402  R23MAT402P  R23MAT403  R23MAT403P  R23MCSC401 R23MCSC401P  R23MCSC402 R23MCSC402P  R23MDP401 R23SDP401 R20APSP401 R23CSC401 R23CSC401P  R23CSC402 R23CSC402P	Electricity and Magnetism Electricity and Magnetism (Practical) Modern Physics Modern Physics (Practical) Introduction to Nuclear and Particle Physics Introduction to Nuclear and Particle Course (Practical) Database Management System Database Management System (Practical) Object Oriented Software Engineering Object Oriented Software Engineering (Practical) Indian Philosophy Cyber Security APPRENTICESHIP Ring Theory and Problem Solving Sessions Ring Theory and Problem Solving Sessions (Practical) Introduction to Real Analysis and Problem solving Sessions Introduction to Real Analysis and Problem solving Sessions (Practical) Integral Transforms and Problem solving sessions Integral Transforms and Problem solving sessions (Practical) Database Management System Database Management System (Practical) Object Oriented Software Engineering Object Oriented Software Engineering (Practical) Indian Philosophy Cyber Security APPRENTICESHIP Database Management System Database Management System (Practical) Object Oriented Software Engineering Object Oriented Software Engineering (Practical)
BSC HONOURS MATHEMATICS		
BSC HONOURS COMPUTERS I & II		

BSC HONOURS  
ELECTRONICS

R23CSC403	Data Communications and Computer Networks
R23CSC403P	Data Communications and Computer Networks (Practical)
R23MPHY401	Electricity and Magnetism
R23MELE401	Electrical and Electronics Instrumentation
R23MMAT401	Ring Theory and Problem Solving Sessions
R23MCHE401	Physical Chemistry -II (States of Matter, Phase rule and Surface Chemistry)
R23MPHY401P	Electricity and Magnetism (Practical)
R23MELE401P	Electrical and Electronics Instrumentation (Practical)
R23MMAT401P	Ring Theory and Problem Solving Sessions (Practical)
R23MCHE401P	Physical Chemistry -II (States of Matter, Phase rule and Surface Chemistry) (Practical)
R23MPHY402	Modern Physics
R23MELE402	Micro Processor System
R23MMAT402	Introduction to Real Analysis and Problem Solving Sessions
R23MCHE402	General and Physical Chemistry
R23MPHY402P	Modern Physics (Practical)
R23MELE402P	Micro Processor System (Practical)
R23MMAT402P	Introduction to Real Analysis and Problem Solving Sessions (Practical)
R23MCHE402P	General and Physical Chemistry (Practical)
R23MDP401	Indian Philosophy
R23SDP401	Cyber Security
R20APSP401	APPRENTICESHIP
R23ELE401	Electrical and Electronic Instrumentation
R23ELE401P	Electrical & Electronic Instrumentation (Practical)
R23ELE402	Micro Control System
R23ELE402P	Micro Control System (Practical)
R23ELE403	Micro Processor System
R23ELE403P	Micro Processor System (Practical)
R23MCSC401	Database Management System
R23MCSC401P	Database Management System (Practical)
R23MCSC402	Object Oriented Software Engineering
R23MCSC402P	Object Oriented Software Engineering (Practical)
R23MDP401	Indian Philosophy

	R23SDP401	Cyber Security
	R20APSP401	APPRENTICESHIP
BSC HONOURSSTATISTICS	R23STAT401	Sampling Techniques
	R23STAT401P	Sampling Techniques (Practical)
	R23STAT402	Design and Analysis of Experiments
	R23STAT402P	Design and Analysis of Experiments (Practical)
	R23STAT403	Numerical Analysis
	R23STAT403P	Numerical Analysis (Practical)
	R23MCSC401	Database Management System
	R23MCSC401P	Database Management System (Practical)
	R23MCSC402	Object Oriented Software Engineering
	R23MCSC402P	Object Oriented Software Engineering (Practical)
	R23MDP401	Indian Philosophy
	R23SDP401	Cyber Security
	R20APSP401	APPRENTICESHIP
BSC HONOURSCHEMISTRY	R23CHE401	Physical Chemistry - II
	R23CHE401P	Physical Chemistry - II (Practical)
	R23CHE402	General and Physical Chemistry
	R23CHE402P	General and Physical Chemistry (Practical)
	R23CHE403	Nitrogen containing Organic Compounds and Spectroscopy
	R23CHE403P	Nitrogen containing Organic Compounds and Spectroscopy (Practical)
	R23MCSC401	Database Management System
	R23MCSC401P	Database Management System (Practical)
	R23MCSC402	Object Oriented Software Engineering
	R23MCSC402P	Object Oriented Software Engineering (Practical)
	R23MDP401	Indian Philosophy
	R23SDP401	Cyber Security
	R20APSP401	APPRENTICESHIP
BSC HONOURS DATA SCIENCE	R23DS401	Data Visualisation using Tableau
	R23DS401P	Data Visualisation using Tableau (Practical)
	R23DS402	Data visualisation using Python
	R23DS402P	Data visualisation using Python (Practical)
	R23DS403	Introduction to SQL and Advanced Tableau
	R23DS403P	Introduction to SQL and Advanced Tableau (Practical)
	R23DSMSTAT401	Design and Analysis of Experiments

BSC HONOURS  
MICROBIOLOGY

R23DSMSTAT401P	Design and Analysis of Experiments (Practical)
R23DSMSTAT402	Numerical Analysis
R23DSMSTAT402P	Numerical Analysis (Practical)
R23MDP401	Indian Philosophy
R23SDP401	Cyber Security
R20APSP401	APPRENTICESHIP
R23MB401	Molecular Biology and Microbial Genetics
R23MB401P	Molecular Biology and Microbial Genetics (Practical)
R23MB402	Microbial Physiology and Metabolism
R23MB402P	Microbial Physiology and Metabolism (Practical)
R23MB403	R DNA Technology, Bio Statistics and Bio Informatics
R23MB403P	R DNA Technology, Bio Statistics and Bio Informatics (Practical)
R23MCHE401	Physical Chemistry II (States of Matter, Phase rule and surface chemistry)
R23MCHE401P	Physical Chemistry II (States of Matter, Phase rule and surface chemistry) (Practical)
R23MCHE402	General and Physical Chemistry
R23MCHE402P	General and Physical Chemistry (Practical)
R23MDP401	Indian Philosophy
R23SDP401	Cyber Security
R20APSP401	APPRENTICESHIP
R23BT401	Immunology
R23BT401P	Immunology (Practical)
R23BT402	Bio informatics and Bio Statistics
R23BT402P	Bio informatics & Bio Statistics (Practical)
R23BT403	Medical Biotechnology
R23BT403P	Medical Biotechnology (Practical)
R23MCHE401	Physical Chemistry II (States of Matter, Phase rule and surface chemistry)

BSC HONOURS  
BIOTECHNOLOGY

	R23MCHE401P	Physical Chemistry II (States of Matter, Phase rule and surface chemistry) (Practical)
	R23MCHE402	General and Physical Chemistry
	R23MCHE402P	General and Physical Chemistry (Practical)
	R23MDP401	Indian Philosophy
	R23SDP401	Cyber Security
	R20APSP401	APPRENTICESHIP
BSC HONOURS	R23AI401	Data warehousing and Data Mining
ARTIFICIAL INTELLIGENCE	R23AI401P	Data warehousing and Data Mining (Practical)
	R23AI402	Machine Learning using Python
	R23AI402P	Machine Learning using Python (Practical)
	R23AI403	Introduction to AI
	R23AI403P	Introduction to AI (Practical)
	R23AIMCSC401	Web Full Stack Development
	R23AIMCSC401P	Web Full Stack Development (Practical)
	R23MCSC402	Object Oriented Software Engineering
	R23MCSC402P	Object Oriented Software Engineering (Practical)
	R23MDP401	Indian Philosophy
	R23SDP401	Cyber Security
	R20APSP401	APPRENTICESHIP
BCOM HONOURS	R23COM401	Corporate Accounting
GENERAL	R23COM402	Cost and Management Accounting
	R23COM403	Auditing
	R23MCSC404	Interactive Web Development with JavaScript
	R23MCSC404P	Interactive Web Development with JavaScript Practical
	R23MCSC403	UI/UX Design
	R23MCSC403P	UI/UX Design (Practical)
	R23MDP401	Indian Philosophy
	R23SDP401	CyberSecurity
	R20APSP401	APPRENTICESHIP
BCOM HONOUR	R23COMT401	Assessment of Individuals and HUF
STP	R23COMT402	Company Law
	R23COMT403	Assessment of Firms, AOP and Societies

	R23MNCSC401	Social Media Marketing
	R23MNCSC402	Web Programming
	R23MNCSC402P	Web Programming (Practical)
	R23MDP401	Indian Philosophy
	R23SDP401	CyberSecurity
	R20APSP401	APPRENTICESHIP
BCOM HONOURS COMPUTERS I & II	R23COM401	Corporate Accounting
	R23COM401P	Corporate Accounting (Practical)
	R23COM402	Cost and Management Accounting
	R23COM402P	Cost and Management Accounting (Practical)
	R23BCOMP401	DBMS with Oracle
	R23BCOMP401P	DBMS with Oracle (Practical)
	R23MCOM401	Talent Management
	R23MCOM402	Training and Development
	R23MDP401	Indian Philosophy
	R23SDP401	Cyber Security
	R20APSP401	APPRENTICESHIP
BCA HONOURS I & II	R23BCA401	Advanced Java Web Technologies:Servlets,JSP,and Hibernate
	R23BCA401P	Advanced Java Web Technologies:Servlets,JSP,and Hibernate Practical
	R23BCA402	Operating System
	R23BCA402P	Operating System (Practical)
	R23BCA403	Mobile Application Development using Android
	R23BCA403P	Mobile Application Development using Android (Practical)
	R23MNCSC403	Data Visualisation using Tableau
	R23MNCSC403P	Data Visualisation using Tableau (Practical)
	R23MBCA402	Data visualisation using Python
	R23MBCA402P	Data visualisation using Python (Practical)
	R23MDP401	Indian Philosophy
	R23SDP402	Digital Marketing
	R20APSP401	APPRENTICESHIP

BBA HONOURS I & II	R23BBA401	Marketing Management
	R23BBA403	Human Resource Management
	R23BBA402	Financial Management
	R23MNCSC401	Social Media Marketing
	R23MNCSC402	Web Programming
	R23MNCSC402P	Web Programming (Practical)
	R23MDP401	Indian Philosophy
	R23SDP401	Cyber Security
	R20APSP401	APPRENTICESHIP
	R23BBBA401	Marketing Management
BBA HONOURS BUSINESS ANALYTICS	R23BBBA402	Financial Management
	R23BBACSC401	Data Mining & Warehousing
	R23BBACSC401P	Data Mining & Warehousing (Practical)
	R23MNCSC401	Social Media Marketing
	R23MNCSC402	Web Programming
	R23MNCSC402P	Web Programming (Practical)
	R23MDP401	Indian Philosophy
	R23SDP401	Cyber Security
	R20APSP401	APPRENTICESHIP
	R23WT401	Data Communications and Computer Networks
B.VOC HONOURS SOFTWARE DEVELOPMENT	R23WT401P	Data Communications and Computer Networks (Practical)
	R23WT402	Interactive Web Development with JavaScript
	R23WT402P	Interactive Web Development with JavaScript (Practical)
	R23WT403	Web Development using PHP and MYSQL
	R23WT403P	Web Development using PHP and MYSQL (Practical)
	R23MNCSC403	Data Visualisation using Tableau
	R23MNCSC403P	Data Visualisation using Tableau (Practical)
	R23MCSC402	Object Oriented Software Engineering
	R23MCSC402P	Object Oriented Software Engineering (Practical)
	R23MDP401	Indian Philosophy
R23SDP401	Cyber Security	
R20APSP401	APPRENTICESHIP	

BA HONOURS POLITICAL SCIENCE	R23PS401	Indian Government
	R23PS402	Dynamics of Indian Political System
	R23PS403	Indian Political Thought
	R23MSOC401	Urban Sociology and Urban Development
	R23MSOC402	Rural Sociology and Rural Development
	R23MDP401	Indian Philosophy
	R23SDP402	Digital Marketing
	R20APSP401	APPRENTICESHIP