

STRUCTURE OF UG PROGRAMMES

B. Sc PHYSICS

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
Common	ENG3A05	Readings on Indian Literatures	5	4
Common	ARB3A09	Reading Arabic Prose & Poetry	5	4
	MAL3A09	Malayala Sahithyam 3		
	HIN3A09	Poetry in Hindi		
Core	PHY3 B03	Core Course III – Electrodynamics-I	3	3
Core	PHY4B05	Core Course V – Practical I	2	*
Complementary	MTS3C03	Mathematics - 3 Y4	5	3
Complementary	CSC3C03	Problem Solving Using C	3T+2L	3
SEMESTER IV				
Common	ENG4A06	Songs& Stories of Our World	5	4
Common	ARB4A10	Arabic Literature & Culture	5	4
	MAL4A10	Malayala Sahithyam 4		
	HIN4A10	Novel & Short Stories		
Core	PHY4B04	Core Course IV - Electrodynamics II	3	3
Core	PHY4B05	Core Course Practical V – Practical I	2	5
Complementary	MTS4C04	Mathematics - 4	5	3
Complementary	CSC4C04	Data Structure Using C	3	3
Complementary	CSC4C05	Programming Lab: C & Data Structure	2	2
SEMESTER V				
Core	PHY5B06	Computational physics	3	3
Core	PHY5B07	Quantum Mechanics	3	3
Core	PHY5B08	Physical Optics and Modern Optics	3	3
Core	PHY5B09	Electronics (Analogue and Digital)	3	3
Open		Open Course	3	3
Core	PHY6B14(P)	Practical II	4	*
Core	PHY6B15(P)	Practical III	4	*
Core	B16(Pr)	Project(including study tour)	2	*
SEMESTER VI				
Core	PHY6B10	Thermodynamics	3	3
Core	PHY6B11	Statistical Physics, Solid State Physics, Spectroscopy and Photonics	3	3
Core	PHY6B12	Nuclear Physics and Particle Physics	4	4
Core	PHY6B13	Relativistic Mechanics and Astrophysics	3	3
Elective	PHY6B14	Elective: Nano Science & Technology	3	3
Core	PHY6B15 (P)	Practical II	4	5
Core	PHY6B16(P)	Practical III	4	5
Core	PHY6B17	Project(including study tour)	2	3

* Examination conducted in subsequent semester

B. Sc POLYMER CHEMISTRY

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
Common	A11	Basic Numerical Skill	4	4
Common	A12	General Informatics	4	4
Core	CHE3B03	Physical Chemistry-I	3	3
Core	CHE4B05	Inorganic Chemistry Practical-I	2	*
Complementary	PHY3C03	Mechanics, Relativity Waves & Oscillation	2	*
Complementary	PHY4C05	Physics Practical	2	*
Complementary	MTS3C03	Mathematics III	5	3
SEMESTER IV				
Common	A13	Entrepreneurship Development	4	4
Common	A14	Nutrition & Health	4	4
Core	CHE4B04	Organic Chemistry-I	3	3
Core	CHE4B05(P)	Inorganic Chemistry Practical-I	2	4
Complementary	PHY4C04	Electricity, Magnetism and Nuclear Physics	3	2
Complementary	PHY4C05	Physics Practical	2	2
Complementary	MTS4C04	Mathematics IV	5	3
SEMESTER V				
Core	CHE5B06	Inorganic Chemistry III	3	3
Core	CHE5B07	Organic Chemistry II	4	3
Core	CHE5B08	Physical Chemistry II	4	3
Core	CHE6B15(P)	Organic Chemistry Practical	5	*
Core	CHE6B16(P)	Inorganic Chemistry Practical II	5	*
Open		Open Course I	2	2
Core	CHE6B18(Pr)	Course Work/Project	2	*
SEMESTER VI				
Core	CHE6B09	Inorganic Chemistry IV	3	3
Core	CHE6B10	Organic Chemistry III	3	3
Core	CHE6B11	Physical Chemistry III	3	3
Core	PC06B01	Polymer Chemistry I	3	3
Elective	PC06B02(E)	Polymer Processing & Technology	3	3
Core	CHE6B15(P)	Organic Chemistry Practical	0	4
Core	CHE6B16(P)	Inorganic Chemistry Practical II	0	4
Core	CHE6B17(P)	Inorganic Chemistry Practical III	5	4
Core	CHE6B14(P)	Physical Chemistry Practical	5	4
Core	CHE6B18(Pr)	Course Work/Project Work	0	2

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B. Sc MATHEMATICS

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
Common	ENG3 A05	Readings on Indian Literatures	5	4
Common	ARB3A09	Reading Arabic Prose & Poetry	4	4
	MAL3A09	Malayala Sahithyam 3		
	HIN3A09(1)	Literature in Hindi		
Core	MTS3B03	Calculus of Single Variable - 2	5	4
Complementary	STA3C03	Probability Distribution & Sampling Theory	5	3
Complementary	CSC3C03	Problem Solving Using C	3T+2L	3
SEMESTER IV				
Common	ENG4A06	Songs & Stories of Our World	5	4
Common	ARB4A10	Arabic Literature & Culture	5	4
	MAL4A10	Malayala Sahithyam 4		
	HIN4A10(1)	Culture and Civilisation		
Core	MTS4B04	Linear Algebra	5	4
Complementary	STA4C04	Statistical Inference and Quality Control	5	3
Complementary	CSC4C04	Data Structure Using C	3	3
Complementary	CSC4C05	Programming Lab: C & Data Structure	2	2
SEMESTER V				
Core	MTS5B05	Abstract Algebra	5	4
Core	MTS5B06	Basic Analysis	5	4
Core	MTS5B07	Numerical Analysis	4	3
Core	MTS5B08	Linear Programming	3	3
Open	MTS5B09	Introduction to Geometry and Theory of Equations	3	3
Core		Project/Viva	2	*
SEMESTER VI				
Core	MATS6B10	Real Analysis	5	5
Core	MATS6B11	Complex Analysis	5	5
Core	MATS6B12	Calculus of Multi Variable	5	4
Core	MATS6B13	Differential Equations	5	4
Core	MATS6B14	Graph theory	3	2
Core	MATS6P15	Project/viva	2	2

* Examination conducted in subsequent semester

B. Sc MICROBIOLOGY

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
General	A11	Biodiversity: Scope & Relevance	4	4
General	A12	Research Methodology	4	4

Course	Code	Title	Hr/Wk	Credit
Core	MBG3B03	Environmental and Sanitation Microbiology	4	4
Complementary	BCH3C03	Biochemistry-III	3	2
Complementary	MBG3C06	Computer Application Fundamentals Ms Excel,SPSS	3	2
Core	MBG4B05 (P)	Microbiology Practical - I	3	*
Complementary	BCH1C05	Biochemistry Practical	2	*
Complementary	MBG4C10 (P)	Computer Application Practical	2	*
SEMESTER IV				
Common	A13	Intellectual Property Rights	4	4
Core	A14	Natural Resource Management	4	4
Core	MBG4B04	Soil and Agricultural Microbiology	4	4
Complementary	BCH4C04	Biochemistry - IV	3	2
Complementary	MBG4C09	Python Programming	3	4
Complementary	MBG4B05 (P)	Microbiology Practical - II	2	4
Complementary	BCH1C05	Biochemistry	3	2
Complementary	MBG4C10 (P)	Python practical	2	2
SEMESTER V				
Core	MBG5B06	Industrial Microbiology	4	4
Core	MBG5B07	Food and Dairy Microbiology	4	4
Core	MBG6B12(P)	Practical	4	*
Core	MBG5B08	Immunology	4	4
Core	MBG5B09	Medical Microbiology I	4	*
SEMESTER VI				
Core	MBG6B10	Genetics & Genetic Engineering	4	4
Core	MBG6B15(E2)	Molecular Biology	4	4
Core	MBG6B11	Medical Microbiology-II	4	4
Core	MB6B12(P)	Microbiology Practical -II	4	4
Core	MB6B13(E1)	Microbiology Practical -III	4	4
Core	MB6B14(Pr)	Microbiology Practical -IV	4	3
Core	MB6B16(Pr)	Project Work	2	2

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B. Sc COMPUTER SCIENCE

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
General	A11	Python Programming	4	4
General	A12	Sensors and Transducers	4	4
Core	BCS3B04	Data Structures using C	3T+4L	3
Complementary	MTS3C03	Mathematics III	5	3
Complementary	ELE3C04	Digital Electronics	3T+2L	2
SEMESTER IV				
General	A13	Data communication optical fibers	4	4
General	A14	Microprocessor,Architecture&programming	4	4
Core	BCS4B05	Database Management System & RDBMS	3T+2L	3
Core	BCS4B06	Programming Laboratory II:Data Structures and RDBMS	2	4
Complementary	MTS4C04	Mathematics IV	5	3
Complementary	ELE4C05	Communication Electronics	3	2
Complementary	EL4C06	Digital and communication Electronics Lab	2	2
SEMESTER V				
Core	BCS5B07	Computer Organisation & Architecture	5	3
Core	BCS5B08	Java Programming	3T+3L	3
Core	BCS5B09	Web Programming using PHP	3T+3L	3
Core	BCS5B10	Principles of Software Engineering	4	3
Open		Open Course	2	3
		Project Work	2L	*
SEMESTER VI				
Core	BCS6B11	Android Programming	4	3
Core	BCS6B12	Operating Systems	4	3
Core	BCS6B13	Computer Networks	5	3
Core	BCS6B14	Programming Laboratory III: Java and PHP Programming	3L	4
Core	BCS6B15	Programming Laboratory IV - Android &Linux Shell Programming	3L	4
Core	BCS6B16X	Elective Course	4	3
Core	BCS6B17	Project Work	2L	3

* Examination conducted in subsequent semester

B. A ECONOMICS

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
Common	ENG3 A05	Readings on Indian Literatures	5	4
Common	ARB3A09	Reading Arabic Prose & Poetry	5	4
	MAL3A09	Malayala Sahithyam 3		
	HIN3A09(1)	Literature in Hindi		
Core	ECO3 B03	Quantitative Methods for Economic Analysis - I	5	4
Core	ECO3 B04	Micro Economics II	4	4
Complementary	ECO3 C03	Banking II	6	4
SEMESTER IV				
Common	ENG4A06	Songs & Stories of Our World	5	4
Common	ARB4A10	Arabic Literature & Culture	5	4
	MAL4A10	Malayala Sahithyam 4		
	HIN4A10(1)	Culture and Civilisation		

Course	Code	Title	Hr/Wk	Credit
Core	ECO4B05	Quantitative Methods for Economic Analysis - II	5	4
Core	ECO4B06	Macro Economics II	4	4
Complementary	HIS4C01	Modern Indian History (1857 to the Present): Selected Themes in Contemporary India	6	4
SEMESTER V				
Core	ECO5B07	Fiscal Economics	6	4
Core	ECO5B08	Indian Economic Development	6	4
Core	ECO5B09	Economics of Capital Market	5	4
Core	ECO5B10	Mathematical Economics	5	4
Open		Open Course	5	3
SEMESTER VI				
Core	ECO6B11	Financial Economics	5	4
Core	ECO6B12	International Economics	5	4
Core	ECO6B13	Development of Economic Thought	5	4
Core	ECO6B14	Economics of Growth and Development	5	4
Elective	ECO6E03	Urban Economics	3	3
	EC5B15(PR)	Project	2	2

B. A HISTORY

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
Common	ENG3A05	Readings in Indian literatures	5	4
Common	ARB3A09	Reading Arabic Prose & Poetry	4	4
	MAL3A09	Malayala Sahithyam 3		
	HIN3A09(1)	Literature in Hindi		
Core	HIS3B03	World History – 1	4	4
Core	HIS3B04	Indian History - 1	5	4
Complementary	HIS3(C07)	History of Tourism Development in india	6	*
SEMESTER IV				
Common	ENG3A06	Songs and Stories of Our World	5	4
Common	ARB4A10	Arabic Literature & Culture	5	4
	MAL4A10	Malayala Sahithyam 4		
	HIN4A10(1)	Culture and Civilisation		
Core	HIS4B05	World History – 2	4	4
Core	HIS4B06	Indian History - 2	5	4
Complementary	ECO4C01	Introductory Economics - 2	6	2
SEMESTER V				
Core	HIS5B07	World history - 3	5	4
Core	HIS5B08	Indian History - 3	5	4
Core	HIS5B09	Kerala History - 1	6	4
Core	HIS5B10	Methodology of the Writing of History	5	4
Open		Open Course	2	2
Core	HIS5B07	Project Work	2	*
SEMESTER VI				
Core	HIS6B11	Indian History - 4	5	4
Core	HIS6B12	Kerala History -2	5	4
Core	HIS6B13	Gender Studies	5	4
Core	HIS6B14	Indian Heritage &Plurality of culture	5	4
Core	HIS6B15	Dissertation\project work	2	*

Course	Code	Title	Hr/Wk	Credit
Elective	HIS6B16	History of Archaeology in india	3	2

* Examination conducted in subsequent semester

B. A ENGLISH

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
Common	ENG3 A05	Readings in Indian literatures	5	4
Common	ARB3A09	Reading Arabic Prose & Poetry	4	4
	MAL3A03	Malayala Sahithyam 3		
	HIN3A09(1)	Literature in Hindi		
Core	ENG3B03	Appreciating Prose	4	4
Core	ENG3B04	English Grammar & Usage	5	4
Complementary	JOU4(3)C02	Introduction to Television & Cinema	6	4
SEMESTER IV				
Common	ENG3A05	Songs and Stories of Our World	5	4
Common	ARB4A10	Arabic Literature & Culture	4	4
	MAL4A04	Malayala Sahithyam 4		
	HIN4A10(1)	Culture and Civilisation		
Core	ENG4B05	Appreciating Fiction	5	4
Core	ENG4B06	Literary Criticism	4	4
Complementary	JOU4(3)C01	Journalistic Practices	6	4
SEMESTER V				
Core	EN5B07	Appreciation Drama And Theatre	5	4
Core	EN5B08	Literary Theory	5	4
Core	EN5B09	Language and Linguistics	5	4
Core	EN5B10	Indian writing in English	5	4
Open	ENG5D01	Open Course	3	4
SEMESTER V				
Core	ENG6B11	Voice of Women	5	4
Core	ENG6B12	Classics of World Literature	5	4
Core	ENG6B13	Film Studies	5	4
Core	ENG6B14	New Literatures in English	5	4
Open	ENG6B17	Elective – Writing for the Media	3	3
Core	ENG6B21/ ENG6B22	Project/ Reserch methodology	2	2

* Examination conducted in subsequent semester

B. A Advertising & Sales Management

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
Common	ENG3A05	Readings in Indian literatures	5	4
Common	ARB3A09	Reading Arabic Prose & Poetry	4	4
	MAL3A09	Malayala Sahithyam 3		
	HIN3A09(1)	Literature in Hindi		
Core	ASM3M03	Advertising	5	4
Core	JOA3B03	Copy writing for Print ads	5	5
Core	JOA3B04	Advertising Design and Layout	5	4
SEMESTER IV				
Common	ENG4A06	Songs and Stories of Our World	5	4

Course	Code	Title	Hr/Wk	Credit
Common	ARB4A10	Arabic Literature & Culture	5	4
	MAL4A10	Malayala Sahithyam 4		
	HIN4A10(1)	Culture and Civilisation		
Core	ASM4M04	Brand Management	4	4
Core	ASM4 M05	Consumer Behaviour	5	4
Core	JOA 4B 05	Media planning	5	4
SEMESTER V				
Core	ASM5 M06	Digital Marketing	5	4
Core	ASM5 M07	Service Marketing	6	4
Core	ASM 5 M08	Business Research Methods	5	4
Core	JOA 5B O6	Public relations and corporate communications	5	4
Core	JOA 5B O7	Radio and Television advertising	6	5
SEMESTER VI				
Core	ASM6 M09	Sales Promotion	5	4
Core	ASM6 M10	Computer Application in Sales and Marketing	5	4
Core	JOA 6B 08	Digital media and Out of the Home advertising	5	4
Core	JOA 6B 09	Communication and advertising research	5	4
Core	JOA 6B 10	Three weeks Project and Viva Voce – Journalism	5	3

B. Com

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
Common	BCM3A11	Basic Numerical Methods	5	4
Common	BCM3A12	Professional Business Skills	5	4
Core	BCM3B03	Business Regulations	4	4
Core	BCM3B04	Corporate Accounting	6	4
Complementary	BCM3C03	Human Resource Management	5	4
SEMESTER IV				
Common	BCM4A13	Entrepreneurship Development	5	4
Common	BCM4A14	Banking and Insurance	5	4
Core	BCM4B05	Cost Accounting	6	4
Core	BCM4B06	Corporate Regulations	4	4
Complementary	BCM4C04	Quantitative Techniques for Business	5	4
SEMESTER V				
Core	BCM5B07	Accounting for Management	5	4
Core	BCM5B08	Business Research Methods	4	4
Core	BCM5B09	Income Tax Law and Practice	5	4
Core	BCM5B10	Business Information Systems	4	4
Complementary	BCM5B11	Business Applications of Computer	4	4
		Open Course	3	3
SEMESTER VI				
Core	BCM6B12	Income Tax Law and GST	5	4
Core	BCM6B13	Auditing and Corporate Governance	5	4
Core	BCM6B14	Computerised Accounting with Tally	5	4

Course	Code	Title	Hr/Wk	Credit
Core	BCM6B15	Office Automation Tool	5	4
Open	BCM6B16(PR)	Three weeks Project and Viva Voce	5	4

BBA

Course	Code	Title	Hr/Wk	Credit
SEMESTER III				
Common	BBA3A11	Basic Numerical Methods	5	4
Common	BBA3A12	Professional Business Skills	4	4
Core	BBA3B04	Corporate Accounting	6	4
Core	BBA3B05	Financial Management	5	4
Core	BBA3C02	Business Regulations	5	4
SEMESTER IV				
Common	BBA4A13	Entrepreneurship Development	5	4
Common	BBA4A14	Banking & Insurance	4	4
Core	BBA4B06	Cost & Management Accounting	6	4
Core	BBA4C03	Corporate Regulations	5	4
Core	BBA4C04	Quantitative Techniques for Business	5	4
SEMESTER V				
Core	BBA5B07	Human Resource Management	5	4
Core	BBA5B08	Business Research Methods	4	4
Core	BBA5B09	Operation Management	3	4
Core	BBA5B10	Elective 1	5	4
Core	BBA5B11	Elective 2	5	4
Open	BBA5D01	Open Course	3	2
SEMESTER VI				
Core	BBA6B12	Organisational Behaviour	5	4
Core	BBA6B13	Management Science	5	4
Core	BBA6B14	Project Management	5	4
Core	BBA6B15	Elective 3	5	4
Core	BBA6B16	Elective 4	5	4
Core	BBA6B17	Project	2	2

OPEN COURSES

Department	Code	Title
Physics	PH5D1(1)	Non-conventional Energy Sources
Chemistry	CH5D02	Environmental Chemistry
Mathematics	MM5D03	Mathematics for Social Sciences
Microbiology	MB5D01	Public Health and Emerging Microbial Diseases
Physical Education	PE5D03	Physical Activity, Health and Wellness
Economics	ECO5D01	Economics for Everyday Life
History	HIS5D02	Historical Tourism
English	EN5D03	English for Competitive Examinations
Commerce	BC5D03	Basic Accounting
Management	BBVD01	E-Commerce Management
Computer Science	BCS5D01	Introduction to Computer & Office Automation
Advertising & Sales Management	ASM5D01	Digital Marketing