

M.A. English

Semester I

Course	Course Code	Course Title	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core I	21PENC11	British Poetry	6	4	40	60	100
Core II	21PENC12	British Prose	6	4	40	60	100
Core III	21PENC13	Indian Writing in English	6	4	40	60	100
Core IV	21PENC14	American Literature	6	4	40	60	100
Core V	21PENC15	Eco Literature	6	4	40	60	100
MOOC (Compulsory)				+2 (Extra)			
		Total	30	22			

Semester II

Course	Course Code	Course Title	Cont. Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core VI	21PENC21	British Drama	5	4	40	60	100
Core VII	21PENC22	Approaches to Literary Criticism	5	4	40	60	100
Core VIII	21PENC23	Women's Writing	5	4	40	60	100
Core IX	21PENC24	Religion and Literature	5	4	40	60	100
Core X	21PENC25	Psychology and Literature	5	4	40	60	100
Core Elective I	21PENE21 / 21PENE22	English Language Teaching: Methods and Practices / Comparative Literature: Theory and Practice	5	4	40	60	100
		Total	30	24+2			

Semester III

Course	Course Code	Course Title	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core XI	21PENC31	British Fiction	5	4	40	60	100
Core XII	21PENC32	Recent Trends in Critical Theory	5	4	40	60	100
Core XIII	21PENC33	Research Methodology	5	4	40	60	100
Core XIV	21PENC34	Canadian Literature	5	4	40	60	100
Core XV	21PENC35	South Asian Writings in English	5	4	40	60	100
Core Elective II	21PENE31 / 21PENE32	Translation: Theory and Practice / Basic Linguistics	5	4	40	60	100
Self Study Course/ MOOC	21PENSS1 21PENM32	Travel Literature MOOC		+2 (Extra)			
		Total	30	24+2			

Semester IV

Course	Course Code	Course Title	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core XVI	21PENC41	Shakespeare	6	4	40	60	100
Core XVII	21PENC42	Study of the English Language	6	4	40	60	100
Core XVIII	21PENC43	Post-Colonial Writings in English	6	4	40	60	100
Core XIX	21PENC44	Subaltern Literature	6	4	40	60	100
Project	21PENP41	Project	6	6	40	60	100
		Total	30	22			

M.A. History**Semester I**

Subject	Course Code	Course Title	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core I	21PHIC11	History of India upto 1206 C.E	6	4	40	60	100
Core II	21PHIC12	Ancient World Civilisations (Excluding India)	6	4	40	60	100
Core III	21PHIC13	History of Tamil Nadu up to 1336 C.E	6	4	40	60	100
Core IV	21PHIC14	Principles and Methods of Archaeology	6	4	40	60	100
Core V	21PHIC15	Intellectual History of India	6	4	40	60	100
MOOC (Compulsory)				+2 (Extra)			
		Total	30	20			

Semester II

Subject	Course Code	Course Title	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core VI	21PHIC21	History of India from 1206 to 1707 C.E	5	4	40	60	100
Core VII	21PHIC22	History of Tamil Nadu from 1336 to 1806 C.E	5	4	40	60	100
Core VIII	21PHIC23	Contemporary World Since 1945	5	4	40	60	100
Core IX	21PHIC24	Intellectual History of Tamil Nadu	5	4	40	60	100
Core X	21PHIC25	Indian Art	5	4	40	60	100
Core Elective I	21PHIE21	A A Archives Keeping B B Age of Revolutions	5	4	40	60	100
		Total	30	24+2			

Semester III

Subject	Course Code	Course Title	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core XI	21PHIC31	History of India from 1707 to 1858 C.E	5	4	40	60	100
Core XII	21PHIC32	History of Tamil Nadu from 1806 to 2001 C.E	5	4	40	60	100
Core XIII	21PHIC33	History of U.S.A upto 1865 C.E	5	4	40	60	100
Core XIV	21PHIC34	Epigraphy	5	4	40	60	100
Core XV	21PHIC35	Historical Methods-Theory and Practice	5	4	40	60	100
Core Elective II	21PHIE31/ 21PHIE32	A. History of Modern West B. History of South East Asia – The 20 th Century	5	4	40	60	100
Self Study Course / MOOC	21PHISS1	Understanding Popular Culture/MOOC		+2 (Extra)			
		Total	30	24+2			

Semester IV

Subject	Course Code	Course Title	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core XVI	21PHIC41	History of India from 1858 to 1950 C.E	6	4	40	60	100
Core XVII	21PHIC42	Contemporary History of India from 1947 to 2019 C.E	6	4	40	60	100
Core XVIII	21PHIC43	Dravidian Movement upto 1969 C.E	6	4	40	60	100
Core XIX	21PHIC44	History of U.S.A from 1865 to 2020 C.E	6	4	40	60	100
Core XX/ Project	21PHIC45/ 21PHIP41	Human Rights/ Project	6	6	40	60	100
		Total	30	22			

M.Sc. Botany**Semester – I**

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core I	21PBOC11	Plant Diversity I (Algae, Bryophyte Fungi, Lichen)	6	4	40	60	100
Core II	21PBOC12	Plant Microbe Interaction	6	4	40	60	100
Core III	21PBOC13	Bioinstrumentation and Research Methods	5	4	40	60	100
Core IV	21PBOC14	Phytochemistry and Pharmacognosy	5	4	40	60	100
Core Practical I	21PBOCR1	21PBOC11,21PBOC12	4	2	40	60	100
Core Practical II	21PBOCR2	21PBOC13,21PBOC14	4	2	40	60	100
MOOC (Compulsory)				+2 (Extra)			
			30	20			

Semester – II

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core V	21PBOC21	Plant Diversity II (Pteridophytes, Gymnosperms and Paleobotany)	5	4	40	60	100
Core VI	21PBOC22	Marine Botany	5	4	40	60	100
Core VII	21PBOC23	Developmental Botany	5	4	40	60	100
Core VIII	21PBOC24	Genetics and Bioinformatics	4	4	40	60	100
Field Project/ Mini project	21PBFW21		3	3	40	60	100
Core Practical III	21PBOCR3	21PBOC21, 21PBOC22	4	2	40	60	100
Core Practical IV	21PBOCR4	21PBOC23, 21PBOC24	4	2	40	60	100
			30	23+2			

Semester – III

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core IX	21PBOC31	Biochemistry and Biophysics	6	4	40	60	100
Core X	21PBOC32	Taxonomy of Angiosperms	6	4	40	60	100
Core XI	21PBOC33	Molecular Biology and Genetic Engineering	5	4	40	60	100
Core XII	21PBOC34	Ecology and Conservation Biology	5	4	40	60	100
Core Practical V	21PBOCR5	21PBOC31,21PBOC32	4	2	40	60	100
Core Practical VI	21PBOCR6	21PBOC33,21PBOC34	4	2	40	60	100
Self-Study Course/ MOOC	21PBOSS1/ 21PBOM31	Forest Botany		+2 (Extra)			
			30	20+2			

Semester – IV

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core XIII	21PBOC41	Plant Physiology	6	5	40	60	100
Core XIV	21PBOC42	Horticulture and Seed Technology	4	4	40	60	100
Core XV	21PBOC43	Plant Biotechnology	4	4	40	60	100
Core Practical VII	21PBOCR7	21PBOC41	2	2	40	60	100
Core Practical VIII	21PBOCR8	21PBOC42, 21PBOC43	4	2	40	60	100
Core Elective	21PBOE41 21PBOE42	Entrepreneurship Botany/ Nanobiotechnology	4	4	40	60	100
Project	21PBOP41	Project	6	6		100	100
			30	27			

M.Sc. Zoology**Semester – I**

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core I	21PZOC11	Cell and Molecular Biology	6	4	40	60	100
Core II	21PZOC12	Genetics and Evolution	6	4	40	60	100
Core III	21PZOC13	Biochemistry	5	4	40	60	100
Core IV	21PZOC14	Applied Entomology	5	4	40	60	100
Core Practical I	21PZOCR1	21PZOC11, 21PZOC12	4	2	40	60	100
Core Practical II	21PZOCR2	21PZOC13, 21PZOC14	4	2	40	60	100
MOOC (Compulsory)				+2 (Extra)			
			30	20			

Semester – II

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core V	21PZOC21	Animal Physiology	5	4	40	60	100
Core VI	21PZOC22	Immunology	5	4	40	60	100
Core VII	21PZOC23	Applied Biotechnology	5	4	40	60	100
Core VIII	21PZOC24	Microbiology	4	4	40	60	100
Field Work	21PZFW21		3	3	40	60	100
Core Practical III	21PZOCR3	21PZOC21, 21PZOC22	4	2	40	60	100
Core Practical IV	21PZOCR4	21PZOC23, 21PZOC24	4	2			
			30	23+2			

Semester – III

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core IX	21PZOC31	Computational Biology	6	4	40	60	100
Core X	21PZOC32	Aquaculture Practices and Farm Management	6	4	40	60	100
Core XI	21PZOC33	Developmental Zoology	5	4	40	60	100
Core XII	21PZOC34	Research Methodology and Biotechniques	5	4	40	60	100
Core Practical V	21PZOCCR5	21PZOC31, 21PZOC32	4	2	40	60	100
Core Practical VI	21PZOCCR6	21PZOC33, 21PZOC34	4	2	40	60	100
Self Study Course / MOOC	21PZOSS1/ 21PZOM31	Zoology for Competitive Examination		+2 (Extra)		100	100
			30	20+2			

Semester – IV

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core XIII	21PZOC41	Marine Biotechnology	4	4	40	60	100
Core XIV	21PZOC42	Conservation Biology	5	4	40	60	100
Core XV	21PZOC43	Commercial Zoology	5	4	40	60	100
Core Practical VII	21PZOCCR7	21PZOC41	2	2	40	60	100
Core Practical VIII	21PZOCCR8	21PZOC42, 21PZOC43	4	3	40	60	100
Core Elective	21PZOE41 21PZOE42	A. Ornamental Fish Culture B. Vermitechnology	4	4	40	60	100
Project	21PZOP41		6	6		100	100
			30	27			

M.Sc. Microbiology**Semester-I**

Subject	Course Code	Course Title	Contact hours/ week	Credits	Max. marks		
					CIA	ESE	Total
Core-I	21PMIC11	Fundamentals of Microbiology	5	4	40	60	100
Core-II	21PMIC12	Microbial Diversity and classification	5	4	40	60	100
Core-III	21PMIC13	Biochemistry	4	4	40	60	100
Core IV	21PMIC14	Microbial Physiology	4	4	40	60	100
Core Practical I	21PMICR1	Laboratory in Fundamentals of Microbiology, Microbial diversity and classification	6	3	40	60	100
Core Practical II	21PMICR2	Laboratory in Biochemistry and Microbial physiology	6	3	40	60	100
MOOC (Compulsory)				+2 (Extra)			
		Total	30	22			

Semester-II

Subject	Course Code	Course Title	Contact hours/ week	Credits	Max. marks		
					CIA	ESE	Total
Core- V	21PMIC21	Immunology	5	4	40	60	100
Core- VI	21PMIC22	Medical Microbiology	5	4	40	60	100
Core- VII	21PMIC23	Microbial genetics and Molecular biology	4	4	40	60	100
Core- VIII	21PMIC24	Marine Microbiology	4	4	40	60	100
Core Practical III	21PMICR3	Laboratory in Immunology and Medical Microbiology	6	3	40	60	100
Core Practical - IV	21PMICR4	Laboratory in Microbial genetics , Molecular biology and Marine Microbiology	6	3	40	60	100
		Total	30	22+2			

Semester-III

Subject	Course Code	Course Title	Contact hours/ week	Credits	Max. marks		
					CIA	ESE	Total
Core-IX	21PMIC31	Industrial and Pharmaceutical Microbiology	5	4	40	60	100
Core- X	21PMIC32	Genetic Engineering	5	4	40	60	100
Core-XI	21PMIC33	Food and Dairy Microbiology	4	4	40	60	100
Core- XII	21PMIC34	Research Methodology	4	4	40	60	100
Core Practical- V	21PMICR5	Laboratory in Industrial and Pharmaceutical Microbiology, Genetic Engineering	6	3	40	60	100
Core Practical- VI	21PMICR6	Laboratory in Food and Dairy Microbiology, Research Methodology	6	4	40	60	100
Self Study Course /MOOC	21PMISS1/ 21PMIM31	Probiotics		+2 (Extra)			100
		Total	30	23+2			

Semester-IV

Subject	Course Code	Course Title	Contact hours/ week	Credits	Max. Marks		
					CIA	ESE	Total
Core -XIII	21PMIC41	Environmental Microbiology	4	4	40	60	100
Core- XIV	21PMIC42	Soil and Agricultural Microbiology	4	4	40	60	100
Core -XV	21PMIC43	Applied Microbiology	4	4	40	60	100
Core Practical - VII	21PMICR7	Laboratory in Environmental Microbiology, Soil and Agricultural Microbiology	6	3	40	60	100
Core Practical- VIII	21PMICR8	Laboratory in Applied Microbiology	6	3	40	60	100
Project	21PMIP41		6	5	40	60	100
		Total	30	23			

M.Sc. Psychology**SEMESTER I**

Subject	Subject code	Title of the Paper	Contact hours/ week	Credits	Maximum marks		
					CIA	ESE	TOTAL
Core I	21PPSC11	Advanced General Psychology	6	4	40	60	100
Core II	21PPSC12	Developmental Psychology	6	4	40	60	100
Core III	21PPSC13	Theories of Personality	5	4	40	60	100
Core IV	21PPSC14	Physiological Psychology	5	4	40	60	100
Core Practical I	21PPSCR1	Advanced GP & DP	4	2	40	60	100
Core Practical II	21PPSCR2	Theories of Personality & BP	4	2	40	60	100
MOOC (Compulsory)				+2 (Extra)			
			30	20			

SEMESTER II

Subject	Subject code	Title of the Paper	Contact hours / week	Credits	Maximum marks		
					CIA	ESE	TOTAL
Core V	21PPSC21	Counselling Psychology	5	4	40	60	100
Core VI	21PPSC22	Psychotherapeutics	5	4	40	60	100
Core VII	21PPSC23	Advanced Social Psychology	5	4	40	60	100
Core VIII	21PPSC24	Research methodology	4	4	40	60	100
Field work	21PPFW21		3	3	40	60	100
Core Practical III	21PPSCR3	CP & Psychotherapeutics	4	2	40	60	100
Core Practical IV	21PPSCR4	Advanced SP & RM	4	2			
			30	23+2			

SEMESTER III

Subject	Subject code	Title of the Paper	Contact hours / week	Credits	Maximum marks		
					CIA	ESE	TOTAL
Core IX	21PPSC31	Clinical Psychology	6	4	40	60	100
Core X	21PPSC32	Indian Psychology	6	4	40	60	100
Core XI	21PPSC33	Statistics for behavioural sciences	5	4	40	60	100
Core XII	21PPSC34	Psychological Testing	5	4	40	60	100
Core Practical V	21PPSCR5	Clinical Psychology & IP	4	2	40	60	100
Core Practical VI	21PPSCR6	Statistics & Psychological testing	4	2	40	60	100
Self study course / MOOC	21PPSSS1	Educational Psychology		+2 (Extra)		100	100
			30	20+2			

SEMESTER IV

Subject	Subject code	Title of the Paper	Contact hours / week	Credits	Maximum marks		
					CIA	ESE	TOTAL
Core XIII	21PPSC41	Human resource management	4	4	40	60	100
Core XIV	21PPSC42	Organisational Behaviour	5	4	40	60	100
Core XV	21PPSC43	Neuro Psychology	5	4	40	60	100
Core Practical VII	21PPSCR7	HRM & OB	2	2	40	60	100
Core Practical VIII	21PPSCR8	Neuropsychology	4	3	40	60	100
Elective I	21PPSCE1	Rehabilitation Psychology	4	4	40	60	100
Project	21PPSP41		6	6		100	100
			30	27			

M.Sc.Mathematics**Semester - I**

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core I	21PMAC11	Groups and Rings	6	4	40	60	100
Core II	21PMAC12	Real Analysis	6	4	40	60	100
Core III	21PMAC13	Ordinary differential Equations	6	4	40	60	100
Core IV	21PMAC14	Mathematical Statistics	6	4	40	60	100
Elective I	21PMAE11/ 21PMAE12	A. Combinatorics/ B.Fuzzy Sets	6	4	40	60	100
MOOC (Compulsory)				+2 (Extra)			
			30	20			

Semester - II

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core V	21PMAC21	Linear Algebra	6	4	40	60	100
Core VI	21PMAC22	Mathematical Analysis	6	4	40	60	100
Core VII	21PMAC23	Classical Mechanics	6	4	40	60	100
Core VIII	21PMAC24	Calculus of Variations and Integral Equations	4	4	40	60	100
Core IX	21PMAC25	Stochastic Processes	4	4	40	60	100
Elective II	21PMAE21/ 21PMAE22	A. Operations Research/ B. Applied Algebra	4	3	40	60	100
			30	23+2			

Semester - III

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core X	21PMAC31	Topology	6	4	40	60	100
Core XI	21PMAC32	Graph Theory	6	4	40	60	100
Core XII	21PMAC33	Measure Theory	5	4	40	60	100
Core XIII	21PMAC34	Partial Differential Equations	5	4	40	60	100
Core XIV	21PMAC35	Research Methodology	4	4	40	60	100
Elective III	21PMAE31/ 21PMAE32	A. Fluid Mechanics/ B. Wavelet Analysis	4	3	40	60	100
Self Study Course / MOOC/ Internship	21PMSS31 21PMAM31 21PMAI31	Course on Competitive Exams		+2 (Extra)		100	100
			30	23 + 2			

Semester - IV

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core XV	21PMAC41	Complex Analysis	6	4	40	60	100
Core XVI	21PMAC42	Functional Analysis	6	4	40	60	100
Core XVII	21PMAC43	Number Theory and Cryptography	5	4	40	60	100
Elective IV	21PMAE41/ 21PMAE42	A. Differential Geometry/ B. Projective Geometry	5	4	40	60	100
Project	21PMAP41	Project	8	8	40	60	100
			30	24			
Total			120	90+2+2			

M.Sc. Physics

Semester – I

Subject	Course code	Course Title	Contact Hours/ Week	Credits	Max.Marks		
					CIA	ESE	Total
Core I	21PPHC11	Classical Mechanics	6	5	40	60	100
Core II	21PPHC12	Mathematical Physics I	6	5	40	60	100
Core III	21PPHC13	Electronics and Experimental methods	6	5	40	60	100
Elective I	21PPHE11/ 21PPHE12	A.Crystal growth &Thin films	6	4	40	60	100
		B.Research Methodology					
Core Practical I	21PPHCR1	Electronics	3				
Core Practical II	21PPHCR2	General Physics	3				
MOOC (Compulsory)				+2 (Extra)			
			30	19	160	240	400

Semester – II

Subject	Course code	Course Title	Contact Hours/ Week	Credits	Max.Marks		
					CIA	ESE	Total
Core IV	21PPHC21	Mathematical Physics II	6	5	40	60	100
Core V	21PPHC22	Electromagnetic Theory	6	5	40	60	100
Core VI	21PPHC23	Thermodynamics and Statistical Mechanics	6	5	40	60	100
Elective II	21PPHE21/ 21PPHE22	A. Bio medical Instrumentation	6	4	40	60	100
		B.Microprocessor and Microcontroller					
Core Practical I	21PPHCR1	Electronics	3	3	40	60	100
Core Practical II	21PPHCR2	General Physics	3	3	40	60	100
			30	25	240	360	600

Semester – III

Subject	Course code	Course Title	Contact Hours/ Week	Credits	Max.Marks		
					CIA	ESE	Total
Core VII	21PPHC31	Quantum Mechanics – I	6	5	40	60	100
Core VIII	21PPHC32	Atomic and Molecular Spectroscopy	6	5	40	60	100
Core IX	21PPHC33	Solid State Physics- I	6	5	40	60	100
Elective III	21PPHE31/21P PHE32	A. Nano science and Technology B. Energy sources	6	4	40	60	100
Core Practical III	21PPHCR3	Microprocessor and Microcontroller& C++	3				
Core Practical IV	21PPHCR4	Advanced Electronics	3				
Self Study Course/ MOOC/ Internship (optional)	21PPHSS1/ 21PPHM2/ 21PPHI1	Physics for Lectureship	-	+2 (Extra)		100	100
			30	19+2	240	360	500

Semester – IV

Subject	Course code	Course Title	Contact Hours/ Week	Credits	Max.Marks		
					CIA	ESE	Total
Core X	21PPHC41	Quantum Mechanics – II	6	5	40	60	100
Core XI	21PPHC42	Solid State Physics- II	6	5	40	60	100
Core XII	21PPHC43	Nuclear and Particle Physics	6	5	40	60	100
Core Project	21PPHP41	Project	6	6	40	60	100
Core Practical III	21PPHCR3	Microprocessor and Microcontroller& C++	3	3	40	60	100
Core Practical IV	21PPHCR4	Advanced Electronics	3	3	40	60	100
			30	27	200	300	500

M.Sc. Chemistry

Semester - I

Subject	Course code	Title of the paper	Contact Hours /week	Credits	Max. marks		
					CI A	ESE	Total
Core I	21PCHC11	Inorganic Chemistry - I	5	4	40	60	100
Core II	21PCHC12	Organic Chemistry - I	5	4	40	60	100
Core III	21PCHC13	Physical Chemistry - I	4	4	40	60	100
Elective I	21PCHE11/ 21PCHE12	A. Advanced Topics in Chemistry / B. Food and Health Chemistry	4	4	40	60	100
Core Practical I	21PCHCR1	Inorganic Chemistry Practicals - I	4	-	-	-	-
Core Practical II	21PCHCR2	Organic Chemistry Practicals - I	4	-	-	-	-
Core Practical III	21PCHCR3	Physical Chemistry Practicals - I	4	-	-	-	-
MOOC (Compulsory)				+2 (Extra)			
			30	16	160	240	400

Semester - II

Subject	Course code	Title of the paper	Contact Hours/ week	Credits	Max. marks		
					CIA	ESE	Total
Core IV	21PCHC21	Inorganic Chemistry - II	4	4	40	60	100
Core V	21PCHC22	Organic Chemistry - II	5	4	40	60	100
Core VI	21PCHC23	Physical Chemistry - II	5	4	40	60	100
Elective II	21PCHE21 / 21PCHE22	A. Nanoscience and Technology / B. Energy and Computational Chemistry	4	4	40	60	100
Core Practical I	21PCHCR1	Inorganic Chemistry Practicals - I	4	4	40	60	100
Core Practical II	21PCHCR2	Organic Chemistry Practicals - I	4	4	40	60	100
Core Practical III	21PCHCR3	Physical Chemistry Practicals - I	4	4	40	60	100
			30	28 + 2	280	420	700

Semester - III

Subject	Course code	Title of the paper	Contact Hours/ week	Credits	Max. marks		
					CIA	ESE	Total
Core VII	21PCHC31	Inorganic Chemistry - III	5	4	40	60	100
Core VIII	21PCHC32	Organic Chemistry - III	4	4	40	60	100
Core IX	21PCHC33	Physical Chemistry - III	5	4	40	60	100
Elective III	21PCHE31/ 21PCHE32	A. Research Methodology / B. Chemical Instrumentation	4	4	40	60	100
Core Practical IV	21PCHCR4	Inorganic Chemistry Practicals - II	4				
Core Practical V	21PCHCR5	Organic Chemistry Practicals - II	4				
Core Practical VI	21PCHCR6	Physical Chemistry Practicals - II	4				
Self-study Course / MOOC / Internship (Optional)	21PCHSS1/ 21PCHM31 /21PCHI31	Course on Competitive Exams	-	+2 (Extra)		(100)	(100)
			30	16 + 2	160	240	400

Semester - IV

Subject	Course code	Title of the paper	Contact Hours/ week	Credits	Max. marks		
					CIA	ESE	Total
Core X	21PCHC41	Inorganic Chemistry - IV	4	4	40	60	100
Core XI	21PCHC42	Organic chemistry - IV	4	4	40	60	100
Core XII	21PCHC43	Physical Chemistry - IV	4	4	40	60	100
Core Practical IV	21PCHCR4	Inorganic Chemistry Practicals - II	4	4	40	60	100
Core Practical V	21PCHCR5	Organic Chemistry Practicals - II	4	4	40	60	100
Core Practical VI	21PCHCR6	Physical Chemistry Practicals - II	4	4	40	60	100
Core Project	21PCHP41	Project	6	6	40	60	100
			30	30	280	360	700

M.Sc. Computer Science

SEMESTER – I

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core I	21PCSC11	Design and Analysis of Algorithms	5	4	40	60	100
Core II	21PCSC12	Digital Image processing using MATLAB	5	4	40	60	100
Core III	21PCSC13	Mathematical Foundations for Computer Science	4	4	40	60	100
Core IV	21PCSC14	Compiler Design	4	4	40	60	100
Elective I	21PCSE11/ 21PCSE12	A. Advanced computer Architecture/ B. Cryptography & Network Security	4	4	40	60	100
Core Practical I	21PCSCR1	Design and analysis of algorithm Lab	4	2	40	60	100
Core Practical II	21PCSCR2	Digital Image processing using MATLAB Lab	4	2	40	60	100
MOOC (Compulsory)				+2 (Extra)			
			30	24			700

SEMESTER – II

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core V	21PCSC21	J2EE	5	4	40	60	100
Core VI	21PCSC22	Data Mining & R Programming	5	4	40	60	100
Core VII	21PCSC23	DDBMS	4	4	40	60	100
Core VIII	21PCSC24	Single Board Computers and IoT	4	4	40	60	100
Elective II	21PCSE21/ 21PCSE22	A. Advanced Computer Networks / B. Soft Computing	4	4	40	60	100
Core Practical III	21PCSCR3	J2EE Lab	4	2	40	60	100
Core Practical IV	21PCSCR4	Data Mining Lab (R Lab)	4	2	40	60	100
			30	24+2			800

SEMESTER –III

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Core IX	21PCSC31	Software Testing	4	4	40	60	100
Core X	21PCSC32	Cloud Computing & Big Data	4	4	40	60	100
Core XI	21PCSC33	Data Science using Python	4	4	40	60	100
Core XII	21PCSC34	Research Methodology	4	4	40	60	100
Elective III	21PCSE31/ 21PCSE32	A.Organizational Behaviour / B. Object Oriented Software Engineering	4	4	40	60	100
Core Practical V	21PCSCR5	Python Lab	4	2	40	60	100
Project	21PCSCR6	Mini Project	6	4	40	60	100
Self-study Course/ MOOC/ Internship	21PCSSS1/ 21PCSM31/ 21PCSI31	Course for Competitive Exams		+2 (Extra)		100	100
			30	26+2			800

SEMESTER – IV

Subject	Course Code	Course Title	Contact Hours / Week	Credits	Max. Marks		
					CIA	ESE	Total
Project	21PCSP41	Project work	30	16	100	100	200
			30	16			200

M.Com**Semester I**

Subject	Course Code	Title of the Course	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core I	21PCOC11	Advanced Management Accounting	6	4	40	60	100
Core II	21PCOC12	Modern Marketing	6	4	40	60	100
Core III	21PCOC13	Statistics for Research	6	4	40	60	100
Core IV	21PCOC14	Entrepreneurial Training and Development	6	4	40	60	100
Core V	21PCOC15	Managerial Economics	6	4	40	60	100
MOOC (Compulsory)				+2 (Extra)			
		Total	30	20			500

Semester II

Subject	Course Code	Title of the Course	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core VI	21PCOC21	Organisational Behaviour	5	4	40	60	100
Core VII	21PCOC22	Financial Management	5	4	40	60	100
Core VIII	21PCOC23	Business Environment	5	4	40	60	100
Core IX	21PCOC24	Operations Research	5	4	40	60	100
Core X	21PCOC25	Financial Markets and Institutions	5	4	40	60	100
Core Elective I	21PCOE21	A. Supply Chain Management/ B. Green Marketing	5	4	40	60	100
		Total	30	24+2			600

Semester III

Subject	Course Code	Title of the Course	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core XI	21PCOC31	Advanced Corporate Accounting	6	4	40	60	100
Core XII	21PCOC32	Human Resource Management	6	4	40	60	100
Core XIII	21PCOC33	E- Commerce	5	4	40	60	100
Core XIV	21PCOC34	International Business	5	4	40	60	100
Core XV	21PCOC35	Research Methodology	4	4	40	60	100
Core Elective II	21PCOE31	A. Corporate Legal Framework B. Tourism Management	4	4	40	60	100
Self Study Course / MOOC /Internship (Optional)	21PCOSS1	A. Stress Management B. MOOC		+2 (Extra)			
		Total	30	24+2			600

Semester IV

Subject	Course Code	Title of the Course	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core XVI	21PCOC41	Advanced Cost Accounting	6	4	40	60	100
Core XVII	21PCOC42	Taxation & Tax Planning	6	4	40	60	100
Core XVIII	21PCOC43	Retail Marketing	6	4	40	60	100
Core XIX	21PCOCR1	Computerised Accounting Packages Tally ERP.9 (Practicals)	6	4	40	60	100
Core XX	21PCOP41	Project	6	6	40	60	100
			30	22			500

M.A.ECONOMICS**Semester– I**

Course	Course. Code	Course Title	Hrs/ Week	Credit	Maximum Marks		
					CIA	ESE	Total
Core I	21PECC11	Advanced Microeconomic Analysis-I	6	4	40	60	100
Core II	21PECC12	Advanced Macroeconomic Analysis-I	6	4	40	60	100
Core III	21PECC13	Statistics for Economists- I	6	4	40	60	100
Core IV	21PECC14	Labour Economics	6	4	40	60	100
Core V	21PECC15	Economics of Farm Business	6	4	40	60	100
MOOC (Compulsory)				+2 (Extra)			
		Total	30	20	240	360	600

Semester - II

Course	Course. Code	Course Title	Hrs/ Week	Credit	Maximum Marks		
					CIA	ESE	Total
Core V	21PECC21	Advanced Microeconomic Analysis–II	5	4	40	60	100
Core VI	21PECC22	Advanced Macroeconomic Analysis– II	5	4	40	60	100
Core VII	21PECC23	Statistics for Economists-II	5	4	40	60	100
Core VIII	21PECC24	Demography	5	4	40	60	100
Core IX	21PECC25	International Business	5	4	40	60	100
Core Elective I	21PECE21	Fiscal Economics	5	4	40	60	100
		Total	30	24+2	240	360	600

Semester - III

Course	Course. Code	Course Title	Hrs/ Week	Credit	Maximum Marks		
					CIA	ESE	Total
Core XI	21PECC31	History of Economic Thought	6	4	40	60	100
Core XII	21PECC32	Indian Economy	6	4	40	60	100
Core XIII	21PECC33	Rural Development	5	4	40	60	100
Core XIV	21PECC34	Research Methodology	5	4	40	60	100
Core XV	21PECC35	Public Finance	4	4	40	60	100
Core Elective II	21PECE31	Human Resource Management	4	4	40	60	100
Self-Study Course /MOOC	21PECSS1	Women Entrepreneurship		+2 (Extra)			
		Total	30	24+2	240	360	600

Semester- IV

Course	Course. Code	Course Title	Hrs/ Week	Credit	Maximum Marks		
					CIA	ESE	Total
Core -XVI	21PECC41	Monetary Economics	6	4	40	60	100
Core-XVII	21PECC42	Environmental Economics	6	4	40	60	100
Core-XVIII	21PECC43	Financial Institutions and Market	6	4	40	60	100
Core -XIX	21PECC44	Digital Economy	6	4	40	60	100
Project	21PECP41	Project	6	6	40	60	100
		Total	30	22	200	300	500

MHRM**Semester I**

Subject	Subject Code	Title of the Course	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core I	21PHRC11	Principles and Practices of Management	6	4	40	60	100
Core II	21PHRC12	Human resource Management	6	4	40	60	100
Core III	21PHRC13	Accounting for HR Managers	6	4	40	60	100
Core IV	21PHRC14	Organisational Behaviour	6	4	40	60	100
Core V	21PHRC15	Industrial Relations	6	4	40	60	100
MOOC (Compulsory)				+2 (Extra)			
		Total	30	20			500

Semester II

Subject	Subject Code	Title of the Course	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core VI	21PHRC21	Human Resource Planning and Development	6	4	40	60	100
Core VII	21PHRC22	Behavioural HRM	6	4	40	60	100
Core VIII	21PHRC23	Labour Legislations	5	4	40	60	100
Core IX	21PHRC24	Recruitment and Selection Procedures	5	4	40	60	100
Core X	21PHRC25	Total Quality Management	4	4	40	60	100
Core XI Practical	21PHRCR1	Soft Skill for HR Managers	4	3	40	60	100
		Total	30	23+2			600

Semester III

Subject	Subject Code	Title of the Course	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core XII	21PHRC31	Research Methodology	5	4	40	60	100
Core XIII	21PHRC32	Compensation Management	5	4	40	60	100
Core XIV	21PHRC33	Statistics for Management	5	4	40	60	100
Elective I	21PHRE31	Performance Management / Business Ethics, Corporate Social Responsibility and Governance	4	3	40	60	100
Elective II	21PHRE32	Business Environment / Managerial Economics	4	3	40	60	100
Core XV	21PHRI31	Summer Internship	7	5			
Self Study Course / MOOC	21PHRSS1	Personality Development		+2 (Extra)			
		Total	30	23+2			600

Semester IV

Subject	Subject Code	Title of the Course	Contact Hour/ Week	Credits	Max Marks		
					CIA	ESE	Total
Core XVI	21PHRC41	Strategic Human Resource	6	4	40	60	100
Core XVII	21PHRC42	Human Resource Information System	6	4	40	60	100
Core XVIII	21PHRC43	Training and Development	5	4	40	60	100
Core XIX	21PHRC44	Coaching, Mentoring and Counselling	5	4	40	60	100
Core XX	21PHRP41	Project	8	8	40	60	100
			30	24			500