

102 - B.A. TAMIL

		SEMESTER -V					
23UTAMC51		Core – IX: இலக்கணம் – பொருள்	4	5	25	75	100
23UTAMC52		Core –X: சங்க இலக்கியம் – அகம் - பகுதி – 1	4	5	25	75	100
23UTAMC53		Core –XI: இலக்கிய திறனாய்வியல்	4	5	25	75	100
23UTAMD54	III	Core –XII: செய்முறைத் தேர்வு – Project with Viva voce	4	5	25	75	100
23UTAME55		Elective – V: நாடகவியல்	2	3	25	75	100
23UTAME56		Elective – VI: தமிழரின் மேலாண்மைச் சிந்தனைகள்	2	3	25	75	100
23UVALG57		Value Education	2	2	25	75	100
23UTAMI58	IV	Summer Internship ++	2	-	25	75	100
23UNMSD04		Employability Skills	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



103. B.A. English

		SEMESTER – V					
23UENGC51		Core – IX- Women's Writings	4	5	25	75	100
23UENGC52		Core – X- Introduction to Folk Literature	4	5	25	75	100
23UENGC53	III	Core – XI- Indian Writing in Translation	4	5	25	75	100
23UENGD54	111	Core – XII Project with Viva-voce	4	5	25	75	100
23UENGE55		Elective – V: Authors in Focus	2	3	25	75	100
23UENGE56		Elective - VI Literature and Environment	2	3	25	75	100
23UVALG57		Value Education	2	2	25	75	100
23UENGI58	IV	Summer Internship ⁺⁺	2	-	25	75	100
23UNMSD04		Employability Skills	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



104 B.A HISTORY

				TT	M	axim	um	
Course Code	Part	Study Components & Course Title	Credit	Hours	Marks			
				/Week	CIA	ESE	Total	
		$\mathbf{SEMESTER} - \mathbf{V}$						
23UHISC51		Core – IX: History of the World 1919 -2020 CE	4	5	25	75	100	
23UHISC52		Core – X: Selected Themes in History of U.S.A	4	5	25	75	100	
23UHISC53		Core – XI: History of Cuddalore District	4	5	25	75	100	
23UHISD54	III	Core – XII: Project with Viva-Voce	4	5	25	75	100	
	1111	Elective – V:						
23UHISE55-1		Elements of Human Rights (or)	2	3	25	75	100	
23UHISE55-2		Women Studies						
		Elective VI:						
23UHISE56-1		History of Dravidian Movement (or)	2	3	25	75	100	
23UHISE56-2		History of Revolutions						
23UVALG57		Value Education	2	2	25	75	100	
23UHISI58	IV	Summer Internship ⁺⁺	2	_	25	75	100	
23UNMSD04		Employability Skills	2	2	25	75	100	
		Total	26	30			900	

⁺⁺Students should complete two weeks of internship before the commencement of V semester.

<u>105 - B.A. ECONOMICS</u>

Course Code	Part	Study Components & Course Title	Credit	Hours	Max	imum N	Iarks
Course Code	rart	Study Components & Course Title	Credit	/Week	CIA	ESE	Total
		SEMESTER -V					
23UECOC51		Core – IX - Monetary Economics	4	5	25	75	100
23UECOC52		Core – X - Fiscal Economics	4	5	25	75	100
23UECOC53		Core – XI - Industrial Economics	4	5	25	75	100
23UECOD54		Core – XII - Project with Viva-voce	4	5	25	75	100
23UECOE55-1 23UECOE55-2	III	Elective – V: Tamilnadu Economy(or) Managerial Economics	2	3	25	75	100
23UECOE56-1 23UECOE56-2		Elective – VI: Operations Research(or) Gender Economics	2	3	25	75	100
23UVALG57		Value Education	2	2	25	75	100
23UECOI58		Summer Internship ++	2	-	25	75	100
23UNMSD04	IV	Accounting and Trading Essentials for Employability: Advanced Data Analytics & Visualization	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



106 - B.A. POLITICAL SCIENCE

Programme Structure and Scheme of Examination (under CBCS)

(Applicable to the candidates admitted from the academic year 2023 -2024 onwards)

Course Code	Dort	Study Components & Course Title	Credit	Hours	Max	imum	Marks
Course Code	rart	Study Components & Course Title	Creun	/Week	CIA	ESE	Total
		SEMESTER – V					
23UPOLC51		Core Courses – IX : Indian Government and Politics	4	5	25	75	100
23UPOLC52		Core Course – X: Indian Foreign Policy	4	5	25	75	100
23UPOLC53	III	Core Course – XI : Contemporary World Politics	4	5	25	75	100
23UPOLD54	111	Core Course – XII : Project with viva voice	4	5	25	75	100
23UPOLE55		Elective – V: Election and Politics	2	3	25	75	100
23UPOLE56		Elective –VI: International Organisation	2	3	25	75	100
23UVALG57	IV	Value Education	2	2	25	75	100
23UPOLI58	1 4	Summer Internship ++	2	-	25	75	100
23UNMSD04		Employability Skills	2	2	25	75	100
		Total	26	30	_	-	900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



107. B.A PUBLIC ADMINISTRATION

Part	Course Code	urse Code Study Components & Course Title	Credit	Hours	Maximum Marks			
lait	Course Code	Study Components & Course Title	Credit	/Week	CIA	ESE	Total	
		SEMESTER -V						
	23UPUBC51	Core – IX – Development Administration	4	5	25	75	100	
	23UPUBC52	Core – X – International Organizations	4	5	25	75	100	
	23UPUBC53	Core – XI – Administrative Behaviour	4	5	25	75	100	
111	23UPUBD54	Core – XII: Project with Viva-Voce	4	5	25	75	100	
III	23UPUBE55	Elective – V: Social Welfare Administration in Tamil Nadu	2	3	25	75	100	
	23UPUBE56	Elective – VI: Globalization	2	3	25	75	100	
	23UVALG57	Value Education	2	2	25	75	100	
IV	23UPUBI58	Summer Internship ++	2	-	25	75	100	
	23UNMSD04	Employability Skills	2	2	25	75	100	
		Total	26	30			900	

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



108. B.Com. General

Course Code	Part	Study Components & Course Title	Credit	Hours	Max	imum	Marks
Course Code	rart	Study Components & Course Title	Credit	/Week	CIA	ESE	Total
		SEMESTER – V					
23UCOMC51		Core – IX: Cost Accounting I	4	5	25	75	100
23UCOMC52		Core –X: Banking Law and Practice	4	5	25	75	100
23UCOMC53		Core –XI: Income Tax Law and Practice I	4	5	25	75	100
23UCOMD54	III	Core –XII: Project Viva-Voce	4	5	25	75	100
23UCOME55-1 23UCOME55-2		Elective - V Financial Management (or) Indirect Taxation	2	3	25	75	100
23UCOME56-1 23UCOME56-2		Elective - VI Human Resource Management(or) International Trade	2	3	25	75	100
23UVALG57		Value Education	2	2	25	75	100
23UCOMI58		Summer Internship ++	2	-	25	75	100
23UNMSD04	IV	Accounting and Trading Essentials for Employability: Advanced Data Analytics & Visualization	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



109- B.Com. Corporate Secretary ship

Course Code	Dont	Study Components & Course Title	Credit	Hours	Maximum Marks			
Course Coue	rarı	Study components & course Title		/Week	CIA	ESE	Total	
		SEMESTER -V						
23UCOSC51		Core – IX - Cost Accounting - I	4	5	25	75	100	
23UCOSC52		Core – X - Banking Law & Practice	4	5	25	75	100	
23UCOSC53		Core – XI - Income Tax Law & Practice - I	4	5	25	75	100	
23UCOSD54		Core – XII - Project with Viva-voce	4	5	25	75	100	
	III	Elective – V:						
23UCOSE55-1	111	Entrepreneurial Development (or)	2	3	25	75	100	
23UCOSE55-2		Indirect Taxation						
		Elective – VI:						
23UCOSE56-1		Knowledge Management (or)	2	3	25	75	100	
23UCOSE56-2		Emotional Intelligence						
23UVALG57		Value Education	2	2	25	75	100	
23UCOSI58		Summer Internship ⁺⁺	2	-	25	75	100	
23UNMSD04	IV	Accounting and Trading Essentials for						
		Employability: Advanced Data Analytics &	2	2	25	75	100	
		Visualization						
		Total	26	30			900	

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



110. B.Com. Cooperation

Course Code	Part	Study Components & Course Title	Credit	Hours	Max	imum	Marks
Course Code	rart	Study Components & Course Title	Creuit	/Week	CIA	ESE	Total
		SEMESTER -V					
23UCOPC51		Core – IX - Cost Accounting -	4	5	25	75	100
23UCOPC52		Core – X - Banking Law and Practice	4	5	25	75	100
23UCOPC53	III	Core – XI - Cooperative Legislations	4	5	25	75	100
23UCOPD54		Core – XII - Project Work with Viva Voce	4	5	25	75	100
23UCOPE55-1 23UCOPE55-2		Elective – V: Cooperative Training in Cooperative Institutions (or) Indirect Taxation	2	3	25	75	100
23UCOPE56-1 23UCOPE56-2		Elective – VI: Cooperative Financial Institutions in India (or) Computer Applications for Cooperatives	2	3	25	75	100
23UVALG57		Value Education	2	2	25	75	100
23UCOPI58	1	Summer Internship ++	2	-	25	75	100
23UNMSD04	IV	Accounting and Trading Essentials for Employability: Advanced Data Analytics & Visualization	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



111. B.Com. - Computer Application

Course Code	Don	t Study Components & Course Title	Credit	Hours	Max	imum	Marks
Course Code	Par	t Study Components & Course Title	Credit	/Week	CIA	ESE	Total
		$\mathbf{SEMESTER} - \mathbf{V}$					
23UCOAC51		Core – IX: Cost Accounting I	4	5	25	75	100
23UCOAC52		Core –X: Banking Law and Practice	4	5	25	75	100
23UCOAC53		Core –XI: Income Tax Law and Practice I	4	5	25	75	100
23UCOAD54		Core –XII: Project with Viva-Voce	4	5	25	75	100
23UCOAE55-1 23UCOAE55-2 23UCOAE56-1	III	Elective - V Financial Management / Indirect Taxation Elective - VI Software Engineering+ (UML Lab) /	2	3	25	75 	100
23UCOAE56-2		Object oriented Analysis and Design+ (UML Lab)	2				100
23UVALG57		Value Education	2	2	25	75	100
23UCOAI58		Summer Internship ⁺⁺	2	-	25	75	100
23UNMSD04	IV	Accounting and Trading Essentials for Employability: Advanced Data Analytics & Visualization	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



112. B.Com. Bank Management

Course Code	Part	Study Components & Course Title	Credit	Hours/	N	laxin Mar	
				Week	CIA	ESE	Total
		SEMESTER – V					
23UBBMC51		Core – IX: Cost Accounting I	4	5	25	75	100
23UBBMC52		Core –X: Principles of Marketing	4	5	25	75	100
23UBBMC53		Core –XI: Income Tax Law and Practice I	4	5	25	75	100
23UBBMD54	III	Core –XII: Project Work with Viva Voce	4	5	25	75	100
23UBBME55-1 23UBBME55-2		Elective - V Financial Management / Indirect Taxation	2	3	25	75	100
23UBBME56-1 23UBBME56-2		Elective - VI Credit and Risk Management in Banks/ Retail Banking	2	3	25	75	100
23UVALG57		Value Education	2	2	25	75	100
23UBBMI58		Summer Internship ⁺⁺	2	-	25	75	100
23UNMSD04	IV	Accounting and Trading Essentials for Employability: Advanced Data Analytics & Visualization	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



114. B.S.W (Bachelor of Social Work)

D. 4	C C . 1	Carlo Communia e Communicati	G . 14	Hours/		Maximum Marks					
Part	Course Code	Study Components & Course Title	Credit	Week	CIA	ESE					
	SEMESTER – V										
	23UBSWC51	Social Work Research and Statistics	4	6	25	75	100				
	23UBSWC52	Social Welfare Administration	4	6	25	75	100				
	23UBSWR53	Research Project	4	6	25	75	100				
	23UBSWP54	Core Practical V: Concurrent Field Work – V	4	4	25	75	100				
III	23UBSWE55-1 23UBSWE55-2	Elective–V Disaster Management and Social Work Interventions (or) Peace and Conflict Studies	2	2	25	75	100				
	23UBSWE56-1 23UBSWE56-2	Elective–VI Family and Child Welfare (or) Labour Management	2	2	25	75	100				
	23UVALG57	Value Education	2	2	25	75	100				
IV	23UBSWI58	Summer Internship ⁺⁺	2	-	25	75	100				
	23UNMSD04	Employability Skills	2	2	25	75	100				
			26	30			900				

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



115. Bachelor of Business Administration

Course Code	Part	Study Components & Course Title	Credit	Hours/	Maxi	mum N	Aarks			
Course Code	1 ai t	Study Components & Course Title	Credit	Week	CIA	ESE	Total			
	$\mathbf{SEMESTER} - \mathbf{V}$									
23UBBAC51		Core IX – Research Methodology	4	5	25	75	100			
23UBBAC52		Core X – Advertising and Sales Management	4	5	25	75	100			
23UBBAC53		Core XI -Financial Services	4	5	25	75	100			
23UBBAD54		Core XII –Project with Viva-Voce	4	5	25	75	100			
23UBBAE55-1 23UBBAE55-2 23UBBAE55-3	III	Elective – V: Industrial Relations (OR) Security Analysis & Portfolio Management (OR) Business Taxation	2	3	25	75	100			
23UBBAE56-1 23UBBAE56-2 23UBBAE56-3		Elective – VI: Fundamentals of Logistics (OR) E-Business (OR) Reward Management	2	3	25	75	100			
23UVALG57		Value Education	2	2	25	75	100			
23UBBAI58		Summer Internship ⁺⁺	2		100		100			
23UNMSD04	IV	Accounting and Trading Essentials for Employability: Advanced Data Analytics & Visualization	2	2	25	75	100			
		Total	26	30			900			

⁺⁺Students should complete two weeks of internship before the commencement of V semester.

116. B.A Defence and Strategic Studies

Course	Part	Study Components & Course Title	Credit	Hours/	Max	imum l	Marks
Code	lart	Study Components & Course Title	Credit	Week	CIA	ESE	Total
		SEMESTER – V					
23UDASC51		Core – IX: International Law	4	5	25	75	100
23UDASC52		Core – X: Indian Military Operations (Since 1947)	4	5	25	75	100
23UDASC53		Core – XI: Basics of Defence Economics	4	5	25	75	100
23UDASD54	III	Project with Viva Voce	4	5	25	75	100
23UDASE55		Elective – V Fundamentals of Defence Journalism	2	3	25	75	100
23UDASE56		Elective – VI: News Writing Procedure and News Story	2	3	25	75	100
23UVALG57	137	Value Education	2	2	25	75	100
23UDASI58	IV	Summer Internship ⁺⁺	2	-	25	75	100
23UNMSD04		Employability Skills	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.

117 - B.A. TAMIL LITERATURE (இளம் இலக்கியவியல்)

2023 – 2024 ஆம் கல்வியாண்டுக்காண நடைமுறைப்படுத்தப்படும் முதன்மை, சார்பு, விருப்பப்பாடம், திறன்மேம்பாட்டுத் தேர்வுமுறைப் பாட அமைப்புகள்

Course Code	Part	Study Components & Course Title	Credit	Hours/	Max	imum N	Marks			
Course Code	rart	Study Components & Course Title	Credit	Week	CIA	ESE	Total			
SEMESTER – V										
23UBTLC51		Core Course-9: காப்பியங்கள்	4	5	25	75	100			
23UBTLC52		Core Course-10: சங்க இலக்கியம் பகுதி - 1	4	5	25	75	100			
23UBTLC53		Core Course-11: தொல்காப்பியம் பொருளதிகாரம் 1	4	5	25	75	100			
23UBTLC54		Core Course-12: மொழி வரலாறு	4	5	25	75	100			
23UBTLE55	III	Elective Course-5: விருப்பப்பாடங்கள் – சிற்றிலக்கியம்	2	3	25	75	100			
23UBTLE56		Elective Course-6: விருப்பப்பாடங்கள் – மக்கள் தகவல் தொடர்பியல்	2	3	25	75	100			
23UVALG57	IV	Value Education	2	2	25	75	100			
23UBTLI58	1 1	Summer Internship ⁺⁺	2		25	75	100			
23UNMSD04		Employability Skills	2	2	25	75	100			
		Total	26	30			900			

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



201 - B.Sc. Mathematics

G. C. I.	D. 4	G4 1 C	G . 14	Hours		laxim Mark	
Course Code	Part	Study Components & Course Title	Credit	/Week	CIA	ESE	Tota l
		SEMESTER – V					
23UMATC51		Core - IX: Abstract Algebra	4	5	25	75	100
23UMATC52		Core – X: Real Analysis	4	5	25	75	100
23UMATC53		Core – XI: Fourier Series and Fourier	4	5	25	75	100
23UMATD54		Transform Techniques (Laplace, Fourier) Core – XII: Project with viva-voce	4	5	25	75	100
23UMATE55-1/ 23UMATE55-2/ 23UMATE55-3	III	Elective – V: Fuzzy Sets and Fuzzy Logic/ Programming Language C / Data Structures	2	3	25	75	100
23UMATE56-1/ 23UMATE56-2/ 23UMATE56-3		Elective – VI: Optimization Techniques/ Laplace and Z Transforms/ Neural network models	2	3	25	75	100
23UVALG57		Value Education	2	2	25	75	100
23UMATI58		Summer Internship ⁺⁺	2	_	25	75	100
23UNMSD04	IV	Advanced Analytics & Visualization Skills for Employability: Advanced Data Analytics & Visualization	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



202. B.Sc. STATISTICS

Part	Course Code	Study Components & Course Title	Credit	Hours/	Max	imum	Marks
Tart	Course Coue	Study Components & Course Title	Credit	Week	CIA	ESE	Total
		SEMESTER – V					
	23USTAC51	Core-IX: Stochastic Processes	4	5	25	75	100
	23USTAC52	Core-X: Regression Analysis	4	5	25	75	100
	23USTAP53	Core – XI: Practical covering Core - VIII, IX and X	4	5	25	75	100
III	23USTAD54	Core –XII-Project with Viva-voce	4	5	25	75	100
	23USTAE55	Elective – V: Operations Research	2	3	25	75	100
	23USTAE56	Elective – VI: Econometrics	2	3	25	75	100
	23UVALG57	Value Education	2	2	25	75	100
	23USTAI58	Summer Internship ++	2	-	-	-	100
IV	23UNMSD04	Advanced Analytics & Visualization Skills for Employability: Advanced Data Analytics & Visualization	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



203 - B.Sc. Physics

Part	Course Code	Study Components & Course Title	Credit	Hours/	Max	imum	Marks
rart	Course Code	Study Components & Course Title	Credit	Week	CIA	ESE	Total
		SEMESTER – V					
	23UPHYC51	Core – IX: General Mechanics and Classical Mechanics	4	5	25	75	100
	23UPHYC52	Core –X: Atomic and Nuclear Physics	4	5	25	75	100
	23UPHYC53	Core –XI Analog Electronics	4	5	25	75	100
III	23UPHYD54	Core –XII Project with viva-voce	4	5	25	75	100
111	23UPHYE55	Elective-V: Physics Practical - V	2	3	25	75	100
	23UPHYE56-1 23UPHYE56-2 23UPHYE56-3	Elective-VI: Communication Physics Energy Physics Lasers and Fiber Optics	2	3	25	75	100
	23UVALG57	Value Education	2	2	25	75	100
	23UPHYI58	Summer Internship ⁺⁺	2	-	25	75	100
IV	23UNMSD04	Advanced Analytics & Visualization Skills for Employability: Advanced Data Analytics & Visualization	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



204 - B.Sc. Chemistry

Part	Course Code	Study Components & Course Title	Credit	Hours/	Ma	ximur	n Marks
lait	Course Coue	Study Components & Course Title	Credit	week	CIA	ESE	Total
		SEMESTER – V					
	23UCHEC51	Core Course – IX: organic Chemistry-I	4	5	25	75	100
	23UCHEC52	Core Course – X : Inorganic Chemistry-I	4	5	25	75	100
	23UCHEC53	Core Course – XI: Physical Chemistry-I	4	5	25	75	100
	23UCHED54	Core course-XII-Project with viva voce	4	5	25	75	100
		Elective-V:	2	3	25	75	100
III	23UCHEE55-1	Bio Chemistry/					
111	23UCHEE55-2	Green Chemistry/					
	23UCHEE55-3	Agriculture Chemistry					
		Elective –VI:	2	3	25	75	100
		Industrial Chemistry/					
	23UCHEE56-2	C Language and Chemistry/					
	23UCHEE56-3	Applied Chemistry					
	23UVALG57	Value Education	2	2	25	75	100
	23UCHEI58	Summer Internship ⁺⁺	2	-	25	75	100
IV	23UNMSD04	Advanced Technology for Employability					
		in Life science: Good Manufacturing	2	2	25	75	100
		Practices – Quality Assurance					
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.

205- B. Sc. INDUSTRIAL CHEMISTRY

Course Code	Dont	Study Components & Course Title	Credit	Hours/	Maxi	mum N	Iarks
Course Code	Part	Study Components & Course Title	Credit	week	CIA	ESE	Total
		SEMESTER -V					
23UICHC51		Core –IX: Organic Chemistry-I	4	5	25	75	100
23UICHC52		Core –X: Inorganic Chemistry-I	4	5	25	75	100
23UICHC53		Core – XI: Physical Chemistry-I	4	5	25	75	100
23UICHD54		Core –XII: Project with viva Voce	4	5	25	75	100
		Elective – V:					
23UICHE55-1		Bio Chemistry/	2	3	25	75	100
23UICHE55-2	III	Green Chemistry/	2	3	25	13	100
23UICHE55-3		Agriculture Chemistry					
		Elective-VI:					
23UICHE56-1		Textile Chemistry/	2	3	25	75	100
23UICHE56-2		C Language and Chemistry/	2	3	23	13	100
23UICHE56-3		Applied Chemistry					
23 UVALG57		Value Education	2	2	ı	-	100
23UICHI58		Summer Internship ⁺⁺	2	-	25	75	100
	IV	Advanced Technology for Employability					
23UNMSD04		in Life science: Good Manufacturing	2	2	25	75	100
		Practices – Quality Assurance					
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



206 - B.Sc. Botany

Dowt	Carres Cada	Study Common onto & Common Title	Credit	Hours/	Maxii	mum I	Marks
Part	Course Code	Study Components & Course Title	Crean	Week	CIA	ESE	Total
		SEMESTER – V					
	23UBOTC51	Core – IX: Plant Morphology, Taxonomy and Economic Botany	4	5	25	75	100
	23UBOTC52	Core –X: Plant Anatomy and Embryology	4	5	25	75	100
	23UBOTP53	Core –XI: Practical-V Covering Core – IX	4	5	25	75	100
	23UBOTD54	Core –XII: Project with viva-voce	4	5	25	75	100
III	23UBOTE55-1 23UBOTE55-2 23UBOTE55-3	Elective-V: Cell Biology, Genetics and Plant Breeding (or) Bio-Analytical Techniques (or) Aquatic Botany	2	3	25	75	100
	23UBOTE56	Elective-VI: Entrepreneurial Botany	2	3	25	75	100
	23UVALG57	Value Education	2	2	25	75	100
	23UBOTI58	Summer Internship ++	2	-	100	-	100
IV	23UNMSD04	Advanced Technology for Employability in Life science: Food Safety & Quality Management	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.

207 - B.Sc. Environmental Management

Dowt	Course Code	Study Components & Course Title	Credit	Hours/	Max	imum N	Marks
Part	Course Code	Study Components & Course Title	Credit	Week	CIA	ESE	Total
		SEMESTER - V					
III	23UEVMC51	Core – IX: Environmental Safety, Health	4	5	25	75	100
		and Management					
	23UEVMC52	Core – X: Computers in Environment	4	5	25	75	100
	23UEVMC53	Core – XI : Solid Waste Management	4	5	25	75	100
	23UEVMD54	Core – XII: Project with Viva-voce	4	5	25	75	100
	23UEVME55	Elective-V: Forest Conservation and	2	3	25	75	100
		Management					
	23UEVME56	Elective VI: Conservation Biology and	2	3	25	75	100
		Management					
	23UVALG57	Value Education	2	2	25	75	100
	23UEVMI58	Summer Internship ++	2		25	75	100
IV		Advanced Technology for Employability					
	23UNMSD04	in Life science: Food Safety & Quality	2	2	25	75	100
		Management					
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



208 - B.Sc. ZOOLOGY

Dont	Course Code	Study Components & Course Title	Cnodit	Hours/	Max	imum l	Marks
Part	Course Code	Study Components & Course Title	Credit	Week	CIA	ESE	Total
		SEMESTER - V					
	23UZOOC51	Core Course – IX Developmental Biology	4	5	25	75	100
	23UZOOC52	Core - X: Animal Physiology	4	5	25	75	100
	23UZOOP53	Core –XI : Practical – V: Developmental	4	5	25	75	100
		Biology & Animal Physiology Practical					
	23UZOOD54	Core –XII: Project with Viva-Voce	4	5	25	75	100
III		Elective - V:					
	23UZOOE55-1/	Biophysics & Bio Statistics/	2	3	25	75	100
	23UZOOE55-2	Wild life Conservation and Management					
		Elective - VI:					
	23UZOOE56-1/	Bio composting for Entrepreneurship/	2	3	25	75	100
	23UZOOE56-2	Basic Course in Ornithology					
	23UVALG57	Value Education	2	2	25	75	100
IV	23UZOOI58	Summer Internship ⁺⁺	2	-	25	75	100
1 V	23UNMSD04	Advanced Technology for Employability	2	2	25	75	100
	2301NN3D04	in Life science: Medical Coding	2	2	23	13	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



209 - B. Sc. GEOLOGY

Course Code	Part	Study Components & Course Title	Credit	Hours/ Week	N	Iaxim Mark	
				WEEK	CIA	ESE	Total
		SEMESTER – V					
23UGEOC51		Core IX: Stratigraphy	4	5	25	75	100
23UGEOC52		Core X: Mineralogy	4	5	25	75	100
23UGEOC53	III	Core XI: Igneous Petrology	4	5	25	75	100
23UGEOD54		Core XII: Project with viva- voce	4	5	25	75	100
23UGEOE55		Elective V: Sedimentary and Metamorphic Petrology	2	3	25	75	100
23UGEOE56		Elective VI: Mining Geology	2	3	25	75	100
23UVALG57		Value Education	2	2	25	75	100
23UGEOI58	IV	Summer Internship ⁺⁺	2	-	25	75	100
23UNMSD04		Advanced Technology for Employability in Life science: Medical Coding	2	2	25	75	100
		Total	26	30	_	_	900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



210 - B.Sc. Biochemistry

Part	Course Code	Study Components & Course Title	Credit	Hours/		axim Mark	
		•		Week	CIA	ESE	Total
		SEMESTER – V					
	23UBIOC51	Core –IX: Enzymes	4	5	25	75	100
	23UBIOC52	Core –X: Intermediary Metabolism	4	5	25	75	100
	23UBIOC53	Core –XI: Clinical Biochemistry	4	5	25	75	100
III	23UBIOD54	Core – XII: Project with Viva-Voce	4	5	25	75	100
		Elective – V: Immunology (or) Biochemical Pharmacology	2	3	25	75	100
		Elective – VI: Bioentrepreneurship (OR) Research methodology	2	3	25	75	100
	23UVALG57	Value Education	2	2	25	75	100
	23UBIOI58	Summer Internship++	2	-	25	75	100
IV	23UNMSD04	Advanced Technology for Employability in Life science: Medical Coding	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



211 -B. Sc. Biotechnology

Part	Course Code	ode Study Components & Course Title	Credit	Hours/ Week	Maximum Marks			
		_		vveek	CIA	ESE	Total	
		SEMESTER – V						
	23UBTHC51	Core IX – Plant Biotechnology	4	5	25	75	100	
	23UBTHC52	Core X- Animal Biotechnology	4	5	25	75	100	
	23UBTHC53	Core XI - Environmental and Industrial Biotechnology	4	5	25	75	100	
	23UBTHD54	Core – XII Project with viva-voce	4	5	25	75	100	
III	23UBTHE55	Elective V: Practical V– Plant Biotechnology and Animal Biotechnology (Practical)	2	3	25	75	100	
	23UBTHE56	Elective VI: Practical VI- Environmental and Industrial Biotechnology (Practical)	2	3	25	75	100	
	23UVALG57	Value Education	2	2	25	75	100	
IV	23UBTHI58	Summer Internship++	2	-	25	75	100	
	23UNMSD04	Advanced Technology for Employability in Life science: Medical Coding	2	2	25	75	100	
		Total	26	30			900	



212 – B. Sc. Microbiology

				Hours/ Week	Maximum		
Part	Course Code	Study Components & Course Title	Credit		Marks		
				VVCCK	CIA	ESE	Total
		SEMESTER – V					
	23UMICC51	Core IX : Bacteriology and Mycology	4	5	25	75	100
	23UMICC52	Core X: Virology and Parasitology	4	5	25	75	100
	23UMICP53	Core XI: Practicals –V: Covering Core –	4	5	25	75	100
III		IX & ,X					
1111	23UMICD54	Core XII: Project with Viva-Voce	4	5	25	75	100
	23UMICE55	Elective V:	2	3	25	75	100
		Recombinant DNA Technology					
	23UMICE56	Elective VI: Biosafety & Bioethics	2	3	25	75	100
	23UVALG57	Value Education	2	2	25	75	100
IV	23UMICI58	Summer Internship++	2	1	25	75	100
1 1	23UNMSD04	Advanced Technology for Employability in	2	2	25	75	100
		Life science: Medical Coding	2		23	13	100
	_	Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



213. Bachelor of Computer Applications (B.C.A)

Course Code	Part	Study Components & Course Title	Credit	Hours	Maximum Marks			
Course Coue	1 al t	Study Components & Course Title	Credit	/ Week	CIA	ESE	Total	
		SEMESTER – V						
23UBCAC51		Core-IX: Operating System	4	5	25	75	100	
23UBCAC52		Core-X: ASP .Net Programming	4	5	25	75	100	
23UBCAP53		Core – XI: ASP. Net Programming Lab	4	5	25	75	100	
23UBCAD54		Core –XII: Project with Viva-voce	4	5	25	75	100	
	III	Elective – V:						
23UBCAE55-1	111	Database Management System	2	3	25	75	100	
23UBCAE55-2		Introduction to Data Science						
		Elective – VI:						
23UBCAE56-1		Software Engineering	2	3	25	75	100	
23UBCAE56-2		Data Mining and Warehousing						
23UVALG57		Value Education	2	2	25	75	100	
23UBCAI58	IV	Summer Internship ++	2	-	25	75	100	
23UNMSD04	1 4	Cloud and IT Essentials for Employability:	2	2	25	75	100	
2301NIVISD04		Oracle Database Foundation	2	2	23	13	100	
		Total	26	30	•		900	

⁺⁺Students should complete two weeks of internship before the commencement of V semester.

214 – B.Sc. Computer Science

Course Code	Part	Study Components & Course Title	Credit	Hours/	Max	imum	Marks
Course Coue	lait	Study Components & Course Title	Credit	Week	CIA	ESE	Total
		SEMESTER – V					
23UCSCC51	III	Core – IX: Software Engineering	4	5	25	75	100
23UCSCC52		Core – X: Database Management	4	5	25	75	100
		System					
23UCSCP53		Core – XI: Practical: Database	4	5	25	75	100
		Management System Lab					
23UCSCD54		Core – XII: Project with viva-voce	4	5	25	75	100
		Elective – V:		3	25		
23UCSCE55-1		Operating Systems	2			75	100
23UCSCE55-2	III	Multimedia Systems	2			13	100
23UCSCE55-3		Human – Computer Interaction					
		Elective – VI:					
23UCSCE56-1		Data Mining and Warehousing	2	3	25	75	100
23UCSCE56-2		Cloud Computing	2	3	23	13	100
23UCSCE56-3		Grid Computing					
23UVALG57		Value Education	2	2	25	75	100
23UCSCI58		Summer Internship ⁺⁺	2	1	25	75	100
23UNMSD04	IV	Cloud and IT Essentials for					
		Employability: Oracle Database	2	2	25	75	100
		Foundation					
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



215 – B. Sc. Information Technology

Course Code	Dort	rt Study Components & Course Title	Crodit	Hours	Maxim	num N	Iarks
Course Coue	1 al t	Study Components & Course Title	Credit	/Week	CIA	ESE	Total
		SEMESTER – V					
23UINTC51		Core – IX : Computer Networks	4	5	25	75	100
23UINTC52		Core – X : Database Management	4	5	25	75	100
		System					
23UINTP53		Core – XI: Database Management	4	5	25	75	100
		System Lab	4	3	23	13	100
`23UINTD54		Core – XII: Project with viva-voce	4	5	25	75	100
		Elective V:					
23UINTE55-1	III	Information Security	2	3	25	75	100
23UINTE55-2		ERP	2	3	23	13	100
23UINTE55-3		Multimedia Systems					
		Elective VI:					
23UINTE56-1		Web Application Development	2	3	25	75	100
23UINTE56-2		Mobile Adhoc Network		3	23	13	100
23UINTE56-3		Software Engineering					
23UVALG57		Value Education	2	2	25	75	100
23UINTI58		Summer Internship ⁺⁺	2	_	25	75	100
23UNMSD04	IV	Cloud and IT Essentials for					
		Employability: Oracle Database	2	2	25	75	100
		Foundation					
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



217 – B. Sc. Visual Communication

				Hours/	Maxii	num	Marks
Part	Course Code	Study Components & Course Title	Credit	Week	CIA	ES E	Total
		SEMESTER – V					
	23UVISC51	Core –IX: Advertising and Brand Communication (Theory)	4	5	25	75	100
	23UVISC52	Core – X: User Experience Design (Theory)	4	5	25	75	100
III	23UVISP53	Core – XI: Advanced 3D Texturing and Sculpting (Practical)	4	5	25	75	100
	23UVISD54	Core – XII: Project with viva- voce	4	5	25	75	100
	23UVISE55	Elective – V: Immersive Media Design (Theory)	2	3	25	75	100
	23UVISE56	Elective – VI: Short Filmmaking (Fiction or Non-fiction) (Practical)	2	3	25	75	100
IV	23UVALG57	Value Education	2	2	25	75	100
1 4	23UVISI58	Summer Internship ⁺⁺	2	-	25	75	100
	23UNMSD04	Employability Skills	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



218 - B.Sc. Psychology

			Credit	Hours	Maximum Marks			
Course Code	Part	Study Components & Course Title	Credit	/Week	CIA	ESE	Total	
		SEMESTER – V						
23UPSYC51	I	Core Course – IX: Psychopathology-I	4	5	25	75	100	
23UPSYC52	II	Core Course – X: Cognitive Psychology	4	5	25	75	100	
23UPSYC53		Core Course – XI: Assessments in	4	5	25	75	100	
		Psychology						
23UPSYD54		Core Course – XII: Project with viva-voce	4	6	25	75	100	
23UPSYE55	III	Elective V:	2	2	25	75	100	
		Organizational Psychology						
23UPSYE56		Elective VI:	2	3	25	75	100	
		Counselling Psychology						
23UVALG57		Value Education	2	2	25	75	100	
23UPSYI58	IV	Summer Internship ⁺⁺	2	-	25	75	100	
23UNMSD04		Employability Skills	2	2	25	75	100	
		Total	26	30			900	

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



219 - B. Sc. Home Science - Interior Design and Decor

D		Study Components & Course	G 114	Hours/	Maximum Marks			
Part	Course Code	Title	Credit	Week	CIA	ESE	Total	
		SEMESTER – V						
	23UIDDC51	Core IX: Furniture Design	4	5	25	75	100	
	23UIDDC52	Core X: Application of Color in Interiors	4	5	25	75	100	
III	23UIDDC53	CoreX1 – Kitchen design	4	5	25	75	100	
	23UIDDD54	Core XII: Project with Viva Voce	4	5	25	75	100	
	23UIDDE55	Elective V: Human Nutrition	2	3	25	75	100	
	23UIDDE56	Elective VI: Mass Communication	2	3	25	75	100	
	23UVALG57	Value Education	2	2	25	75	100	
IV	23UIDDI58	Summer Internship ++	2	-	25	75	100	
	23UNMSD04	Employability Skills	2	2	25	75	100	
		Total	26	30			900	



220 - B. Sc. Home Science - Nutrition, Food Service Management and Dietetics

Part	Course Code	Study Components & Course Title	Credit	Hours		Iaximum Marks	
				/ Week	CIA	ESE	Total
		SEMESTER – V					
	23UNFDC51	Core –IX: Quantity Food Production (Theory & Practical)	4	5	25	75	100
	23UNFDC52	Core–X: Public Health Nutrition	4	5	25	75	100
	23UNFDC53	Core–XI: Sports Nutrition	4	5	25	75	100
III	23UNFDD54	Core-XII: Project with viva- voce	4	5	25	75	100
	23UNFDE55	Elective –V: Principles of Resource Management	2	3	25	75	100
	23UNFDE56	Elective–VI: Food Preservation (Theory & Practical)	2	3	25	75	100
	23UVALG57	Value Education	2	2	25	75	100
IV	23UNFDI58	Summer Internship ++	2	-	25	75	100
1 4	23UNMSD04	Advanced Technology for Employability in Life science: Food Safety & Quality	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



221- B.Sc. Data Science

Course Code	Part	Study Components & Course Title	Credit	Hours/	Maximum Marks			
Course Coue	rart	Study Components & Course Title	Credit	Week	CIA	ESE	Total	
		SEMESTER – V						
23UDSCC51		Core – IX: Relational Database Management System	4	5	25	75	100	
23UDSCP52		Core – X: RDBMS Lab using ORACLE	4	5	25	75	100	
23UDSCC53		Core – XI: Machine Learning	4	5	25	75	100	
23UDSCD54		Core – XII: Project with Viva Voce	4	5	25	75	100	
23UDSCE55-1 23UDSCE55-2 23UDSCE55-3	III	Elective – V: Social Network Analysis Social Media Management Social Media Marketing	2	3	25	75	100	
23UDSCE56-1 23UDSCE56-2 23UDSCE56-3		Elective – VI: Cloud Computing Fundamentals Cloud Services Interfacing with Virtualization	2	3	25	75	100	
23UVALG57	IV	Value Education	2	2	25	75	100	
23UDSCI58	1 4	Summer Internship ⁺⁺	2	-	25	75	100	
23UNMSD04		Cloud and IT Essentials for Employability: Oracle Database Foundation	2	2	25	75	100	
		Total	26	30			900	

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



222- B.Sc. Artificial Intelligence

	.		~	Hours/	N	Maximum		
Course Code	Part	Study Components & Course Title	Credit	Week		Mark		
				.,,	CIA	ESE	Total	
		SEMESTER – V						
23UAICC51		Core – IX: Introduction to Machine Learning	4	5	25	75	100	
23UAICP52		Core – X: Practical V: Machine Learning Lab	4	5	25	75	100	
23UAICC53		Core – XI: Deep learning (Theory & Practical)	4	5	25	75	100	
23UAICD54	III	Core – XII: Project with Viva Voce	4	5	25	75	100	
23UAICE55		Elective – V Internet of Things and its Applications	2	3	25	75	100	
23UAICE56		Elective – VI Artificial Neural Network	2	3	25	75	100	
23UVALG57	IV	Value Education	2	2	25	75	100	
23UAICI58	1 V	Summer Internship ⁺⁺	2	-	25	75	100	
23UNMSD04		Cloud and IT Essentials for Employability: Oracle Database Foundation	2	2	25	75	100	
		Total	26	30			900	

⁺⁺Students should complete two weeks of internship before the commencement of V semester.



223 - B. Sc. PHYSICAL EDUCATION

Part	Course Code	Study Components & Course Title	Credit	Hours/ Week	Maximum Marks		
					CIA	ESE	Total
		SEMESTER – V					
III	23UPEDC51	Core – IX: Physiology and Physiology of Exercise	4	5	25	75	100
	23UPEDC52	Core – X: Athletic Care and Rehabilitation	4	5	25	75	100
	23UPEDC53	Core – XI: Recreation and Camping	4	5	25	75	100
	23UPEDP54	Core – XII: Games and Track & Field - IV [Relay, Shot Put, Javelin, Long Jump & High Jump]	4	5	25	75	100
	23UPEDE55	Elective – V : Fitness and Wellness	2	3	25	75	100
	23UPEDE56	Elective- VI: Kinanthropometry	3	4	25	75	100
IV	23UVALG57	Value Education	1	1	25	75	100
	23UPEDI58	Summer Internship++	2	-	25	75	100
	23UNMSD04	Employability Skills	2	2	25	75	100
		Total	26	30			900

⁺⁺Students should complete two weeks of internship before the commencement of V semester.