



**Shrimathi Devkunvar Nanalal Bhatt Vaishnav
College for Women (Autonomous)**

Owned and Managed by Cork Industries Charities Trust
Affiliated to University of Madras - Re-Accredited with 'A+' Grade by NAAC
Chromepet Chennai-600044



DEPARTMENT OF UG MATHEMATICS (AIDED)

B.Sc. MATHEMATICS

CHOICE BASED CREDIT SYSTEM (CBCS)

&

LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (LOCF)

2022-2025 Batch



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B.Sc. MATHEMATICS CURRICULUM FRAMEWORK 2022–2025 Batch

Year/Semester	Subject Code	Title of the Paper	Credits	CIA	SES	Total
PART I						
I Year Semester I	20ULTFC1001	Tamil I	3	40	60	100
	20ULHFC1001	Hindi I	3	40	60	100
	20ULSFC1001	Sanskrit I	3	40	60	100
I Year Semester II	20ULTFC2002	Tamil II	3	40	60	100
	20ULHFC2002	Hindi II	3	40	60	100
	20ULSFC2002	Sanskrit II	3	40	60	100
II Year Semester III	20ULTFC3003	Tamil III	3	40	60	100
	20ULHFC3003	Hindi III	3	40	60	100
	20ULSFC3003	Sanskrit III	3	40	60	100
II Year Semester IV	20ULTFC4004	Tamil IV	3	40	60	100
	20ULHFC4004	Hindi IV	3	40	60	100
	20ULSFC4004	Sanskrit IV	3	40	60	100
PART II						
I Year Semester I	20UGEFC1001	General English I	3	40	60	100
I Year Semester II	20UGEFC2002	General English II	3	40	60	100
II Year Semester III	20UGEFC3003	General English III	3	40	60	100
II Year Semester IV	20UGEFC4004	General English IV	3	40	60	100

FRAME WORK – PART III

Year / Semester	Subject	Subject Code	Title of the Paper	Credits	CIA	SE S	Total
I Year	Core Theory I	20UMACT1001	Trigonometry and Analytical Geometry of 2 Dimensions	4	40	60	100
	Core Theory II	20UMACT1002	Differential Calculus	4	40	60	100
	Allied Theory I	20UMAAT1D01	Allied Physics-I	4	40	60	100

UG REGULATIONS 2022– 25



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Semester I							
I Year Semester	Core Theory III	20UMACT2003	Classical Algebra	4	40	60	100
	Core Theory IV	20UMACT2004	Integral Calculus & Fourier Series	4	40	60	100
II	Allied Theory II	20UMAAT2D02	Allied Physics-II	4	40	60	100
	Allied Practical I	20UMAAP2001	Allied Physics Practical	2	40	60	100
II Year Semester III	Core Theory V	20UMACT3005	Differential Equations & Laplace Transforms	4	40	60	100
	Core Theory VI	20UMACT3006	3 Dimensional Geometry	4	40	60	100
	Allied Theory III	20UMAAT3003	Mathematical Statistics I	4	40	60	100
II Year Semester IV	Core Theory VII	20UMACT4007	Vector Calculus & Fourier Transforms	4	40	60	100
	Core Theory VIII	20UMACT4008	Statics	4	40	60	100
	Allied Theory IV	20UMAAT4004	Mathematical Statistics II	4	40	60	100
	Allied Practical II	20UMAAP4002	Mathematical Statistics II- Practical	2	40	60	100
III Year Semester V	Core Theory IX	20UMACT5009	Modern Algebra	4	40	60	100
	Core Theory X	20UMACT5010	Real Analysis	4	40	60	100
	Core Theory XI		Dynamics	4	40	60	100
	Core Theory XI	20UMACT5011	Graph Theory	4	40	60	100
	Elective Theory I		Mathematics Thinking in Computer Science (Course era Platform)	5	40	60	100
			Mathematics for Computer Science (Course era Platform)				
	Core Theory XIII	20UMACT6013	Linear Algebra	4	40	60	100
	Core Theory XIV	20UMACT6014	Complex Analysis	4	40	60	100



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III Year Semester VI	Core Theory XV	20UMACT6015	Operations Research	4	40	60	100
	Elective Theory II	2UMAET6002	Numerical Methods	5	40	60	100
	Elective Theory III	22UMAET6003	Programming in Python (Theory and Practicals)	3	40	60	75
		22UMAEP6001	Programming in Python - Practicals	2	10	15	25
			Programming, Data Structures and Algorithms Using Python	5	40	60	100
Offered to Advanced Learners – Self study paper			Formal Languages and Automata Theory	5	40	60	100