DEPARTMENT OF UG MATHEMATICS (AIDED) B.Sc. MATHEMATICS

CHOICE BASED CREDIT SYSTEM (CBCS)

&

LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (LOCF)

2023-2026 Batch



Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women (Autonomous)



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B.Sc. MATHEMATICS CURRICULUM FRAMEWORK 2023–2026 Batch

Year/Semester	Subject Code	Title of the Paper	Credits	CIA	SES	Total			
PART I									
	20ULTFC1001	Tamil I	3	40	60	100			
I Year	20ULHFC1001	Hindi I	3	40	60	100			
Semester I	20ULSFC1001	Sanskrit I	3	40	60	100			
I Year	20ULTFC2002	Tamil II	3	40	60	100			
Semester II	20ULHFC2002 Hindi II		3	40	60	100			
	20ULSFC2002	Sanskrit II	3	40	60	100			
	20ULTFC3003	Tamil III	3	40	60	100			
II Year	20ULHFC3003	Hindi III	3	40	60	100			
Semester III	20ULSFC3003	Sanskrit III	3	40	60	100			
	20ULTFC4004	Tamil IV	3	40	60	100			
II Year	20ULHFC4004	Hindi IV	3	40	60	100			
Semester IV	20ULSFC4004	Sanskrit IV	3	40	60	100			
		PART II		1		1			
I Year	20UGEFC1001	General English I	3	40	60	100			
Semester I									
I Year	20UGEFC2002	General English II	3	40	60	100			
Semester II									
II Year	20UGEFC3003	General English III	3	40	60	100			
Semester III									
II Year	20UGEFC4004	General English IV	3	40	60	100			
Semester IV									

FRAME WORK – PART III

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



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Semester							
I							
	Core Theory III	20UMACT2003	Classical Algebra	4	40	60	100
I Year Semester	Core Theory IV	20UMACT2004	Integral Calculus & Fourier Series	4	40	60	100
II	Allied Theory	20UMAAT2D02	Allied Physics-II	4	40	60	100
	Allied Practical	20UMAAP2001	Allied Physics Practical	2	40	60	100
II Year	Core Theory V	20UMACT3005	Differential Equations &Laplace Transforms	4	40	60	100
Semester	Core Theory VI	20UMACT3006	3 Dimensional Geometry	4	40	60	100
III	Allied Theory	20UMAAT3003	Mathematical Statistics I	4	40	60	100
II Year	Core Theory VII	20UMACT4007	Vector Calculus & Fourier Transforms	4	40	60	100
Semester IV	Core Theory VIII	20UMACT4008	Statics	4	40	60	100
	Allied Theory IV	20UMAAT4004	Mathematical Statistics II	4	40	60	100
	Allied Practical	20UMAAP4002	Mathematical Statistics II- Practical	2	40	60	100
	Core Theory IX	20UMACT5009	Modern Algebra	4	40	60	100
	Core Theory X	20UMACT5010	RealAnalysis	4	40	60	100
	Core Theory XI		Dynamics	4	40	60	100
III Year Semester V	Core Theory XI	20UMACT5011	GraphTheory	4	40	60	100
	Elective Theory I		Mathematics Thinking in Computer Science(Course era Platform) Mathematics for Computer	5	40	60	100
	Con Ti VIII	2010/14/07/012	Science (Course era Platforn	A	40		100
	Core Theory XIII	20UMACT6013	Linear Algebra	4	40	60	100
	Core Theory XIV	20UMACT6014	Complex Analysis	4	40	60	100



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