

Curriculum for B.Sc. Mathematics with Computer Applications

(Effective from – 2026-27)(Subject to approval)

S e m e s t e r	Part	Course title	Instru tion Hours per Cycle	Dura tion of Exa m	Marks			Credits
					ICA	ESE	Total	
S e m e s t e r O n e	I	Tamil -I/ Other Languages-I	6*	3	50	50	100	3
	II	English-I	6*	3	50	50	100	3
	III Core Theory	Algebra and Trigonometry	5	3	50	50	100	4
	III Core Theory	Calculus	5	3	50	50	100	4
	III Elective Theory	C Programming	4	3	50	50	100	3
	III Elective Practical	C Programming- Practical	2	3	50	50	100	2
	IV GC	Basic Tamil/Advanced Tamil / General Course#	4	3	50	50	100	2
	IV VE	Value education-I	2	3	50	50	100	1
		Semester One Total	30	-	-	-	-	22
*For Part -I and Part II -4 hours of contact classes and 2 hours of asynchronous classes								
# Students opt for General courses offered by other departments								
S e m e s t e r T w o	I	Tamil-II/ Other Languages-II	6*	3	50	50	100	3
	II	English-II	6*	3	50	50	100	3
	III Core Theory	Python Programming	3	3	50	50	100	3
	III Core Practical	Python Programming- Practical	2	3	50	50	100	1
	III Core Theory	Differential Geometry and Analytical Geometry of 3D	5	3	50	50	100	4
	III Elective Theory	Differential Equations and Laplace transforms	6	3	50	50	100	5

	IV GC	Basic Tamil/Advanced Tamil/General Course#	4	3	50	50	100	2
	IV VE	Value education-II	2	3	50	50	100	1
		Semester Two Total	30	-	-	-	-	22
*For Part -I and Part II -4 hours of contact classes and 2 hours of asynchronous classes # Students opt General courses offered by other departments								
S e m e s t e r T h r e e	I	Tamil-III/ Other Languages-III	6*	3	50	50	100	3
	II	English-III	6*	3	50	50	100	3
	III Core Theory	Abstract Algebra	5	3	50	50	100	4
	III Core Theory	Vector Calculus and Fourier Series	5	3	50	50	100	4
	III Elective Theory	Web designing	4	3	50	50	100	3
	III Elective Practical	Web designing - Practical	2	3	50	50	100	2
	IV PD	Personality Development	2	-	-	-	-	-
	IV EVS	Environmental Science	4	3	50	50	100	2
		Semester Three Total	30	-	-	-	-	21
*For Part -I and Part II -4 hours of contact classes and 2 hours of asynchronous classes								
S e m e s t e r F o u r	I	Tamil-IV/ Other Languages-IV	6*	3	50	50	100	3
	II	English-IV	6*	3	50	50	100	3
	III Core Theory	Linear Algebra	5	3	50	50	100	4
	III Core Theory	Data structures with C	3	3	50	50	100	3
	III Core Practical	Data Structures with C -Practical	2	3	50	50	100	1
	III Elective Theory	Data Analytics with Statistics	6	3	50	50	100	5
	IV PD	Personality Development	2	3	50	50	100	3
	IV Inter	Mathematics for competitive exams	4	3	50	50	100	3

	Disciplinary							
		Semester Four Total	30	-	-	-	-	25
*For Part -I and Part II -4 hours of contact classes and 2 hours of asynchronous classes								
S e m e s t e r F i v e	III Core Theory	Real Analysis	6	3	50	50	100	5
	III Core Theory	Mechanics	6	3	50	50	100	5
	III Core Theory	JAVA Programming	4	3	50	50	100	3
	III Core practical	JAVA Programming - Practical	2	3	50	50	100	1
	III Core Elective	Database Management Systems	6	3	50	50	100	4
		Numerical methods with C						
	IV CT	Computer Training -LaTeX	2	3	50	50	100	3
IV General Elective	Mathematics through Scientific software	4	3	50	50	100	3	
		Internship	-	-	-	-	-	2
		Semester Five Total	30	-	-	-	-	26
S e m e s t e r S i x	III Core Theory	Discrete Mathematics	6	3	50	50	100	5
	III Core Theory	Complex Analysis	6	3	50	50	100	5
	III Core Theory	Number theory and cryptography	6	3	50	50	100	5
	III Core Elective	Operations Research	6	3	50	50	100	5
		Artificial Intelligence and Cloud Computing						
	III Core Theory	Project	6	-	50	50	100	5
V Ext.Act.	Extension Activities	-	-	-	-	-	1	
		Semester Six Total	30	-	-	-	-	26
		Grand Total	180	-	-	-	-	142