

B.Sc. Mathematics, SFS Curriculum (Choice Based Credit System)

(With effect from the Academic year 2021-22)

Semester I							
Component	Course	Marks		Hours	Credits		
		ICA	ESE				
Part I	Language I	50	50	4	3		
Part II	English I	50	50	4	3		
Part III	Major	Algebra and Trigonometry		50	50	5	4
		Calculus		50	50	5	4
	Allied I	Physics I		50	50	6	5
Part IV	(a)	Basic Tamil I / Advanced Tamil I / General Course I		50	50	4	2
	(d)	Value Education		50	50	2	1
Total						30	22

Semester II							
Component	Course	Marks		Hours	Credits		
		ICA	ESE				
Part I	Language II	50	50	4	3		
Part II	English II	50	50	4	3		
Part III	Major	Differential Equations and Laplace Transforms		50	50	5	4
		Differential Geometry and Analytical Geometry of 3 - Dimensions		50	50	5	4
	Allied I	Physics II		50	50	6	5
Part IV	(a)	Basic Tamil II /Advanced Tamil II /General Course II		50	50	4	2
	(d)	Value Education		50	50	2	1
Total						30	22

Semester III							
Component	Course	Marks		Hours	Credits		
		ICA	ESE				
Part I	Language III	50	50	4	3		
Part II	English III	50	50	4	3		
Part III	Major	Abstract Algebra		50	50	5	4
		Vector Calculus and Fourier series		50	50	5	4
	Allied II	Mathematical Statistics with R - I		50	50	6	5
Part IV	(b)	Personality Development		25	-	2	-
	Skill-based	Inter Disciplinary (Mathematics for Competitive Examinations)		50	50	4	3
Total						30	22

Semester IV						
Component		Course	Marks		Hours	Credits
			ICA	ESE		
Part I		Language IV	50	50	4	3
Part II		English IV	50	50	4	3
Part III	Major	Linear Algebra	50	50	5	4
		Programming in C	50	50	5	4
	Allied II	Mathematical Statistics with R - II	50	50	6	5
Part IV	(b) Skill-based	Personality Development	25	50	2	3
	(c)	Environmental Studies	50	50	4	2
Total					30	24
Semester V						
Component		Course	Marks		Hours	Credits
			ICA	ESE		
Part III	Major	Real Analysis -I	50	50	6	5
		Mechanics	50	50	6	5
		Introduction to Python	50	50	6	4
		Elective: Numerical Methods / Operations Research -I	50	50	6	4
Part IV	(b) Skill-based	General Elective (Discrete Mathematics)	50	50	4	3
		Computer Training (LaTeX)	50	50	2	3
Total					30	24
Semester VI						
Component		Course	Marks		Hours	Credits
			ICA	ESE		
Part III	Major	Real Analysis -II	50	50	6	5
		Complex Analysis	50	50	6	5
		Number Theory and Cryptography	50	50	6	5
		Elective: Formal Languages and Graph Theory / Operations Research-II	50	50	6	5
		Project / Internship	50	50	6	5
Total					30	25
Component		Extension Activities	Marks		Hours	Credits
			ICA	ESE		
Part V		NCC/NSS/Sports/Scrub Soc./ Dept. Assn. Activities			-	1
Grand Total						140