



SACRED HEART COLLEGE (AUTONOMOUS)

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Ready for
Every Good Work

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

M.Sc. Mathematics

Sem	Course Code	Course Title	Type	Hrs/ Week	Credits	Marks		
						Int	SE	Total
I	M745	Abstract Algebra	MC	6	5	50	50	100
	M746	Real Analysis	MC	6	5	50	50	100
	M747	Ordinary Differential Equations	MC	6	5	50	50	100
	M748	Mathematical Statistics	MC	6	5	50	50	100
	M749A M749B M749C	A1. Differential Geometry A2. Skill Enhancement Course I – Algebra A3. Coding Theory	ME	6	3	50	50	100
Total				30	23	250	250	500
II	M848	Advanced Linear Algebra	MC	6	5	50	50	100
	M849	Partial Differential Equations	MC	6	5	50	50	100
	M850	Advanced Graph Theory	MC	6	5	50	50	100
	M851	Classical Dynamics	MC	6	5	50	50	100
	M852A M852B M852C	B1. Mathematical Models in Biology B2. Skill Enhancement Course II – Linear Algebra	ME	6	3	50	50	100

		B3. Numerical Analysis						
	Total			30	23	250	250	500
III	M953	Mathematical Analysis	MC	6	5	50	50	100
	M954	Topology	MC	6	5	50	50	100
	M955	Optimization Techniques	MC	6	5	50	50	100
	M956	Fluid Dynamics	MC	6	5	50	50	100
	M957A	C1. Nonlinear Dynamical Systems						
	M957B M957C	C2. Skill Enhancement Course III – Real Analysis C3. Mathematical Physics	ME	6	3	50	50	100
	Total			30	23	250	250	500
IV	M1049	Complex Function Theory	MC	6	5	50	50	100
	M1050	Functional Analysis	MC	6	5	50	50	100
	M1051	Difference Equations	MC	5	4	50	50	100
	M1052A M1052B M1052C	D1. Stochastic Processes D2. Skill Enhancement Course IV – Complex Analysis D3. Theory of Transforms	ME	5	3	50	50	100
	VE10XX	Human Rights		2	1	50	50	100
	M1053J	Project	MC	6	3	20	80	100
		Total			30	21	270	330
	Grand Total			120	90 +10*	1020	1080	2100