



# SACRED HEART COLLEGE (AUTONOMOUS)

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

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

## M.Sc. Mathematics

Sem	Subject Code	Course Title	Type	Hrs/ Week	Credits	Marks		
						Int	SE	Total
I	M740	Abstract Algebra	MC	6	5	40	60	100
	M741	Real Analysis	MC	6	5	40	60	100
	M742	Ordinary Differential Equations	MC	6	5	40	60	100
	M743	Mathematical Statistics	MC	6	5	40	60	100
	M744A	A1. Calculus of Variations and Linear Integral Equations	ME	6	3	40	60	100
	M744B	A2. Discrete Mathematics						
	M744C	A3. Skill Enhancement I – Algebra						
<b>Total</b>				30	23	200	300	500
II	M840	Advanced Linear Algebra	MC	6	5	40	60	100
	M841	Partial Differential Equations	MC	6	5	40	60	100
	M842	Advanced Graph Theory	MC	6	5	40	60	100
	M843	Classical Mechanics	MC	6	5	40	60	100
	M844A	B1. Mathematical Models in Biology	ME	6	3	40	60	100
	M844B	B2. Fuzzy Mathematics						
	M844C	B3. Skill Enhancement II – Linear Algebra						

	M845X - Formal Languages and Automata ( <b>SSP</b> ) 1* M846X - Comprehensive Algebra ( <b>Certificate Program</b> ) 2* M847X - R Language for Statistics ( <b>Certificate Program</b> ) 2*							
	<b>Total</b>			30	23+5*	200	300	500
<b>III</b>	M946	Mathematical Analysis	MC	6	5	40	60	100
	M947	Topology	MC	6	5	40	60	100
	M948	Operations Research	MC	6	5	40	60	100
	M949	Fluid Dynamics	MC	6	5	40	60	100
	M950A M950B M950C	C1. Differential Geometry C2. Nonlinear Differential Equations C3. Skill Enhancement III – Real Analysis	ME	6	3	40	60	100
	M951X - LaTeX for Mathematics ( <b>Certificate Program</b> ) 2* M952X - Mathematics for Competitive Examinations – I ( <b>IDC</b> ) 2*							
	<b>Total</b>			30	23+2*	200	300	500
<b>IV</b>	M1043	Complex Function Theory	MC	6	5	40	60	100
	M1044	Functional Analysis	MC	6	5	40	60	100
	M1045	Difference Equations	MC	5	4	40	60	100
	M1046A M1046B M1046C	D1. Stochastic Processes D2. Reliability Theory and Queuing Processes D3. Skill Enhancement IV – Complex Analysis	ME	5	3	40	60	100
		Human Rights		2	1	40	60	100
	<b>M1047J</b>	<b>Project</b>	<b>MC</b>	<b>6</b>	<b>3</b>	<b>20</b>	<b>80</b>	<b>100</b>

	M1048X - Mathematics for Competitive Examinations – II (IDC) 2*						
	<b>Total</b>		30	21+2*	220	380	600
	<b>Grand Total</b>		<b>120</b>	<b>90 +9*</b>	<b>820</b>	<b>1280</b>	<b>2100</b>