

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I – MATHEMATICS

COURSES OF STUDY OFFERED

(Effective from the academic year 2015 - 2016)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
<b>Semester I</b>									
15MT/MC/DC14	Differential Calculus	4	4	0	0	3	50	50	100
15MT/MC/AT14	Algebra and Trigonometry	4	4	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Physics</b>									
15MT/AC/MP15	Mathematics for Physics - I	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Chemistry</b>									
15MT/AC/MC15	Mathematics for Chemistry - I	5	5	0	0	3	50	50	100
<b>Semester II</b>									
15MT/MC/ML24	Multiple Integral and Laplace Transforms	4	4	0	0	3	50	50	100
15MT/MC/AG25	Analytical Geometry	5	5	0	0	3	50	50	100
15MT/GC/ES22	Environmental Studies	2	2	0	0	-	50	-	100
<b>Allied Core Offered to the Department of Physics</b>									
15MT/AC/MP25	Mathematics for Physics - II	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Chemistry</b>									
15MT/AC/MC25	Mathematics for Chemistry - II	5	5	0	0	3	50	50	100
<b>Semester III</b>									
15MT/MC/VA34	Vector Analysis and applications	4	4	0	0	3	50	50	100
15MT/MC/GT34	Introduction to Graph Theory	4	4	0	0	3	50	50	100
15MT/AC/ST35	Mathematical Statistics - I	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Computer Science</b>									
15MT/AC/MS35	Mathematics for Computer Science - I	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Commerce (Shift I &amp; II)</b>									
15MT/AC/MT35	Mathematics for Commerce	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Commerce - Corporate Secretaryship</b>									
15MT/AC/BM35	Business Mathematics	5	5	0	0	3	50	50	100
<b>Semester IV</b>									
15MT/MC/SF45	Sequence, Series and Fourier Series	5	5	0	0	3	50	50	100
15MT/AC/ST45	Mathematical Statistics – II	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Computer Science</b>									
15MT/AC/MS45	Mathematics for Computer Science - II	5	5	0	0	3	50	50	100
<b>Semester V</b>									
15MT/MC/AS55	Algebraic Structures	5	5	0	0	3	50	50	100
15MT/MC/RA55	Principles of Real Analysis	5	5	0	0	3	50	50	100
15MT/MC/ED55	Elements of Differential Equations	5	5	0	0	3	50	50	100
<b>Semester VI</b>									
15MT/MC/VL65	Vector Spaces and Linear Transformations	5	5	0	0	3	50	50	100
15MT/MC/CA65	Principles of Complex Analysis	5	5	0	0	3	50	50	100

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15MT/MC/PM65	Principles of Mechanics	5	5	0	0	3	50	50	100
<b>Allied Elective Course offered to EC &amp; CM (Shift I)</b>									
15MT/AE/OR45	Operations Research	5	4	1	0	3	50	50	100
<b>Allied Elective Course offered to CM (Shift II), CM (CS) &amp; BCA</b>									
15MT/AE/OR45	Operations Research	5	4	1	0	3	50	50	100
<b>Major Elective Courses</b>									
15MT/ME/OT55	Optimization Techniques	5	4	1	0	3	50	50	100
15MT/ME/PR55	Project	5	0	0	0	-	50	50	100
15MT/ME/ES55	Elements of Space Science	5	4	1	0	3	50	50	100
15MT/ME/NA55	Numerical Analysis	5	4	1	0	3	50	50	100
15MT/ME/NM55	Numerical Methods with program in C	5	4	0	2	3	50	50	100
<b>General Elective Courses</b>									
15MT/GE/WM22	Fascinating World of Mathematics	2	2	0	0	-	50	-	100
15MT/GE/BM23	Basic Mathematics	3	3	0	0	-	50	-	100
15MT/GE/EL23	Essentials of Logic and its Applications	3	3	0	0	-	50	-	100
15MT/GE/RT53	Resource Management Techniques	3	3	0	0	-	50	-	100
15MT/GE/CW23	Celestial Wonders	3	3	0	0	-	50	-	100
15MT/GE/AS23	Applied Statistics	3	3	0	0	-	50	-	100
<b>Social Awareness Programme / Service Learning (SAP/SL)</b>									
15MT/SA/HH52	Health and Hygiene	2	2	0	0	-	50	-	100
15MT/SA/CW52	Child Welfare	2	2	0	0	-	50	-	100
15MT/SA/CD52	Care of the Differently Abled	2	2	0	0	-	50	-	100
15MT/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
15MT/SA/RR52	Rural Realities - Village Visits	2	2	0	0	-	50	-	100
15MT/SA/UR52	Urban Realities - Underdeveloped Areas (Slums)	2	2	0	0	-	50	-	100
15MT/SA/WA52	Welfare of the Aged	2	2	0	0	-	50	-	100
<b>Independent Elective Course</b>									
15MT/UI/FA23	Formal Languages and Automata Theory	3	0	0	0	3	-	100	100