

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**M.Sc. DEGREE : BRANCH I-MATHEMATICS**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19MT/PC/AA14	Abstract Algebra	4	4	2	0	3	50	50	100
19MT/PC/RA14	Real Analysis	4	4	1	0	3	50	50	100
19MT/PC/GT14	Graph Theory	4	4	1	0	3	50	50	100
19MT/PC/OD14	Ordinary Differential Equations	4	4	1	0	3	50	50	100
	Department Elective I								
	SAP / SL	2	2	0	0	-	-	50	100
<b>SEMESTER-II</b>									
19MT/PC/LA24	Linear Algebra	4	4	1	0	3	50	50	100
19MT/PC/MI24	Measure Theory and Integration	4	4	1	0	3	50	50	100
19MT/PC/TO24	Topology	4	4	1	0	3	50	50	100
	Department Elective II								
	Common Elective I								
CD / ET	Value Education	2	2	0	0	-	-	50	100
19MT/PK/SS22	Soft Skills	2	2	0	0	0	50	0	100
<b>SEMESTER-III</b>									
19MT/PC/PD34	Partial Differential Equations	4	4	1	0	3	50	50	100
19MT/PC/FA34	Functional Analysis	4	4	1	0	3	50	50	100
19MT/PC/PS34	Probability and Stochastic Processes	4	4	1	0	3	50	50	100
19MT/PC/RT34	Research Methods and Tools	4	2	1	4	3	50	50	100
	Common Elective II								
CD / ET	Value Education	2	2	0	0	-	-	50	100
19MT/PN/SI32	Summer Internship	2	0	0	0	0	50	-	100
<b>SEMESTER-IV</b>									
19MT/PC/CA44	Complex Analysis	4	4	1	0	3	50	50	100
19MT/PC/DG44	Differential Geometry	4	4	1	0	3	50	50	100
19MT/PC/CF44	Continuum and Fluid Mechanics	4	4	2	0	3	50	50	100
19MT/PC/DS47	Dissertation	7	0	0	9	-	50	50	100
	Department Elective III								
<b>Postgraduate Elective Courses Offered to Parent Department</b>									
19MT/PE/NC15	Number Theory and Cryptography	5	5	0	0	3	50	50	100
19MT/PE/CI15	Calculus of Variation and Integral Equations	5	5	0	0	3	50	50	100

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<b>Subject Code</b>	<b>Title of Course</b>	<b>C</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Ex</b>	<b>CA</b>	<b>ES</b>	<b>M</b>
19MT/PE/AL15	Analysis of Algorithms	5	5	0	0	3	50	50	100
19MT/PE/FT15	Fuzzy Set Theory and Applications	5	5	0	0	3	50	50	100
19MT/PE/ME15	Mechanics	5	5	0	0	3	50	50	100
19MT/PE/MS15	Mathematical Statistics	5	5	0	0	3	50	50	100
<b>Postgraduate Elective Courses Offered to Other Departments</b>									
19MT/PE/ED23	Essentials of Discrete Mathematics	3	3	0	0	3	50	50	100
19/MT/PE/AM23	Elements of Applicable Mathematics	3	3	0	0	3	50	50	100
<b>Independent Elective Courses</b>									
19MT/PI/MM24	Mathematical Modeling	4	0	0	0	3	-	50	100



