

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

M.Sc. DEGREE : Branch III PHYSICS

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
SEMESTER-I									
19PH/PC/MP14	Mathematical Physics I	4	4	1	0	3	50	50	100
19PH/PC/SM14	Statistical Mechanics	4	4	1	0	3	50	50	100
19PH/PC/EL14	Electronics I	4	4	1	0	3	50	50	100
19PH/PC/P114	Experimental Physics I	4	0	0	8	3	50	50	100
	Department Elective I								
	SAP / SL	2	2	0	0	-	-	50	100
SEMESTER-II									
19PH/PC/MP24	Mathematical Physics II	4	4	1	0	3	50	50	100
19PH/PC/CM24	Classical Mechanics	4	4	1	0	3	50	50	100
19PH/PC/P224	Experimental Physics II	4	0	0	8	3	50	50	100
	Department Elective II								
	Common Elective I								
CD / ET	Value Education	2	2	0	0	-	-	50	100
19EL/PK/SS22	Soft Skills	2	2	0	0	-	-	50	100
SEMESTER-III									
19PH/PC/QM34	Quantum Mechanics I	4	4	1	0	3	50	50	100
19PH/PC/SS34	Solid State Physics	4	4	1	0	3	50	50	100
19PH/PC/ED34	Electrodynamics	4	4	2	0	3	50	50	100
19PH/PC/P334	Experimental Physics III	4	0	0	8	3	50	50	100
	Common Elective II								
CD / ET	Value Education	2	2	0	0	-	-	50	100
19PH/PN/SI32	Summer Internship	2	0	0	2	-	50	-	100
SEMESTER-IV									
19PH/PC/QM44	Quantum Mechanics II	4	4	1	0	3	50	50	100
19PH/PC/NP44	Nuclear and Elementary Particle Physics	4	4	1	0	3	50	50	100
19PH/PC/EL44	Electronics II	4	4	1	0	3	50	50	100
19PH/PC/DS47	Dissertation	7	0	0	9	-	-	-	100
	Department Elective III								
Postgraduate Elective Courses Offered to Parent Department									
19PH/PE/CP15	Crystal Physics	5	5	0	0	3	50	50	100
19PH/PE/RP15	Reactor Physics	5	5	0	0	3	50	50	100
19PH/PE/MN15	Material Physics and Nanoscience	5	5	0	0	3	50	50	100
19PH/PE/MU15	Medical Physics and Ultrasonics	5	5	0	0	3	50	50	100
19PH/PE/AP15	Astrophysics	5	5	0	0	3	50	50	100
19PH/PE/GP15	Geophysics	5	5	0	0	3	50	50	100
19PH/PE/SP15	Spectroscopy	5	5	0	0	3	50	50	100

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Postgraduate Elective Courses Offered to Other Departments									
19PH/PE/ED23	Everyday Physics	3	2	0	1	-	50	-	100
19PH/PE/EI23	Electrical Installations	3	2	0	1	-	50	-	100
19PH/PE/EP23	Energy Physics	3	3	0	0	-	50	-	100
Independent Elective Courses									
19PH/PI/DC24	Digital Communication	4	-	0	0	3	-	100	100
19PH/PI/DN24	Data Communication and Computer Networks	4	-	0	0	3	-	100	100