



SEETHALAKSHMI RAMASWAMI COLLEGE
(Autonomous)
Affiliated to Bharathidasan University
Tiruchirappalli
Accredited with A+ by NAAC(4th Cycle)



**Revised CBCS - OBE - BASED Curriculum Structure - PG
(For Students admitted from June 2021 onwards)**

SEM	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOTAL
I	Core course-I	P211PHMT01	Classical Mechanics & Relativity	6	5	EXT	25	75	100
	Core course-II	P211PHMT02	Mathematical Physics	6	5	EXT	25	75	100
	Core course-III	P211PHMT03	Numerical methods and Programming in C++	6	5	EXT	25	75	100
	MBE-I	P211PHME01:1	Analog and Digital Electronics	4	4	EXT	25	75	100
	Core Practical-I	P212PHMP01	Practical-I : General Experiments and Programming in C++	4	-	-	-	-	-
	Core Practical-II	P212PHMP02	Practical-II : Electronics Experiments	4	-	-	-	-	-
			Total credits and marks	30	19				400
II	Core course-IV	P212PHMT04	Electromagnetic Theory	6	5	EXT	25	75	100
	Core course-V	P212PHMT05	Statistical Mechanics	6	5	EXT	25	75	100
	MBE-II	P212PHME02:1	Crystal growth and Thin film Physics	5	4	EXT	25	75	100
	Core Practical-I	P212PHMP01	Practical-I : General Experiments and Programming in C++	4	4	EXT	40	60	100
	Core Practical-II	P212PHMP02	Practical-II : Electronics Experiments	4	4	EXT	40	60	100
	NME	P212PHNE01	OFFERED BY OTHER DEPARTMENTS	5	4	EXT	25	75	100
			Total credits and marks	30	26				600

SEM	COURSE		COURSE TITLE	HRS	CRD	INT/ EXT	INT	EX T	TOTAL
III	Core course-VI	P213PHMT06	Condensed Matter Physics	6	5	EXT	25	75	100
	Core course-VII	P213PHMT07	Quantum Mechanics	6	5	EXT	25	75	100
	Core course-VIII	P213PHMT08	Nuclear and Particle Physics	6	5	EXT	25	75	100
	MBE-III	P213PHME03:1	Microprocessors and Microcontroller	4	4	EXT	25	75	100
	Core Practical-III	P214PHMP03	Practical-III : Advanced Experiments	4	-	-	-	-	-
	Core Practical-IV	P214PHMP04	Practical-IV : Digital Electronics and Microprocessor Experiments	4	-	-	-	-	-
			Total credits and marks	30	19				400
IV	Core course-IX	P214PHMT09	Atomic and Molecular Spectroscopy	6	5	EXT	25	75	100
	Core course-X	P214PHMT10	Nano Physics	6	5	EXT	25	75	100
	MBE-IV	P214PHME04:1	Communication Electronics	4	4	EXT	25	75	100
	Core Practical-III	P214PHMP03	Practical-III : Advanced Experiments	4	4	EXT	40	60	100
	Core Practical-IV	P214PHMP04	Practical-IV : Digital Electronics and Microprocessor Experiments	4	4	EXT	40	60	100
	Project	P214PHPJ01	Project	6	4	EXT	20	80	100
			Total credits and marks	30	26				600
			GRAND TOTAL	120	90				2000
NEC OFFERED BY THE DEPARTMENT TO OTHER DEPARTMENT STUDENTS									
II	NME		Modern Communication Systems	5	4	EXT	25	75	100
LIST OF MAJOR BASED ELECTIVE COURSES									
SEMESTER	COURS	TITLE OF THE COURSE							
SEMESTER I	MBE-I	Analog and Digital Electronics / Advanced Physics							
SEMESTER II	MBE-II	Crystal growth and Thin film Physics / Ultrasonic Study							
SEMESTER III	MBE-III	Microprocessors and Microcontroller / Mathematical Analysis							
IV	MBE-IV	Communication Electronics / Solar energy and its utilization							

TOTAL DISTRIBUTION OF HOURS, CREDITS & MARKS FOR PG PROGRAMME			
SEMESTER	HOURS	CREDITS	TOTAL MARKS
I	30	19	400
II	30	26	600
III	30	19	400
IV	30	26	600
TOTAL	120	90	2000