



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



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

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOTAL
I	I	Language-I	U211XXLT01	Course-I	6	3	EXT	25	75	100
I	II	English-I	U211XXEE01	Course-I	6	3	EXT	25	75	100
I	III	Core Course-I	U211PHMT01	Properties of Matter	7	5	EXT	25	75	100
I	III	Core Practical-I	U212PHMP01	Practical-I : Properties of Matter & Heat Experiments	2	-	-	-	-	-
I	III	First Allied course-I	U211CHAT03	Offered by the Department of Chemistry	4	3	EXT	25	75	100
I	III	First Allied Practical	U212CHAP03	Practical : Offered by the Department of Chemistry	2	-	-	-	-	-
I	III	Cross Disciplinary Course (CDC) {Physics, Chemistry,	U212XDMP01	Radiation and Safety Management	1	-	EXT	-	-	-
I	IV	VBE	U211XXVE01	Value Based Education	2	2	EXT	25	75	100
				Total Credits and Marks	30	16				500
II	I	Language-II	U212XXLT02	Course-II	6	3	EXT	25	75	100
II	II	English-II	U212XXEE02	Course-II	6	3	EXT	25	75	100
II	III	Core Course-II	U212PHMT02	Heat and Thermodynamics	5	5	EXT	25	75	100
II	III	Core Practical-I	U212PHMP01	Practical-I : Properties of Matter & Heat Experiments	2	4	INT	40	60	100
II	III	First Allied Course-II	U212CHAT06	Offered by the Department of Chemistry	4	3	EXT	25	75	100

II	III	First Allied Practical	U212CHAP03	Practical : Offered by the Department of Chemistry	2	3	INT	40	60	100
II	III	Cross Disciplinary Course (CDC) {Physics, Chemistry, Computer Science}	U212XDMP01	Radiation and Safety management	3	4	EXT	25	75	100
II	IV	EVS	U212XXES01	Environmental Studies	2	2	EXT	25	75	100
				Total Credits and Marks	30	27				800
III	I	Language-III	U213XXLT03	Course-III	6	3	EXT	25	75	100
III	II	English-III	U213XXEE03	Course-III	6	3	EXT	25	75	100
III	III	Core Course-III	UT13PHMT03	Mechanics and special theory of relativity	5+1	5	EXT	25	75	100
III	III	Core Practical-II	U214PHMP02	Practical-II : Electricity & Magnetism Experiments	2	-	-	-	-	-
III	III	Second Allied Course-I	U213MAAT12	Offered by the Department of Mathematics	4	3	EXT	25	75	100
III	III	Second Allied Practical		Practical : Offered by the Department of Mathematics	2	-	-	-	-	-
III	IV	NME-I*	U213PHNE01	Energy harvesting and Renewable energy resources	2	2	EXT	25	75	100
III	IV	SBE-I	U213PHSE01:1	Troubleshooting Electronic Equipment	2	2	EXT	25	75	100
				Total Credits and Marks	30	18				600
*Offered by the department to the students of other disciplines										
IV	I	Language-IV	U214XXLT04	Course-IV	6	3	EXT	25	75	100
IV	II	English-IV	U214XXEE04	Course-IV	6	3	EXT	25	75	100
IV	III	Core Course-IV	U214PHMT04	Electricity and Electromagnetism	5+1	5	EXT	25	75	100
IV	III	Core Practical-II	U214PHMP02	Practical-II : Electricity & Magnetism Experiments	2	4	INT	40	60	100

IV	III	Second Allied Course-II	U214MAAT15	Offered by the Department of Mathematics	4	3	EXT	25	75	100
IV	III	Second Allied Practical		Practical : Offered by the Department of Mathematics	2	3	INT	40	60	100
IV	IV	NME-II*	U214PHNE02	Medical Physics	2	2	EXT	25	75	100
IV	IV	SBE-II	U214PHSE02:1	Electronic Communication System	2	2	EXT	25	75	100
				Total Credits and Marks	30	25				800
*Offered by the department to the students of other disciplines										
V	III	Core Course-V	U215PHMT05	Optics, Lasers and Fiber optics	5	5	EXT	25	75	100
V	III	Core Course-VI	U215PHMT06	Atomic Physics and Spectroscopy	5	5	EXT	25	75	100
V	III	Core Course-VII	U215PHMT07	Solid State Physics	5	5	EXT	25	75	100
V	III	Core Practical-III	U215PHMP03	Practical-III : General & Basic Electronics Experiments	3+3	4	INT	40	60	100
V	IV	MBE-I	U215PHME01:1	Basic Electronics	5	4	EXT	25	75	100
V	IV	SBE-III	U215PHSE03:1	C Programming in Physics	2	2	EXT	25	75	100
V	IV	SSD	U215XXSS01	Soft Skill Development	2	2	INT	25	75	100
				Total Credits and Marks	30	27				700

VI	III	Core Course-VIII	U216PHMT08	Basic Quantum Mechanics	5	5	EXT	25	75	100
VI	III	Core Course-IX	U216PHMT09	Nuclear Physics	5	5	EXT	25	75	100
VI	III	Core Practical-IV	U216PHMP04	Practical-IV : General & Digital Electronics Experiments	3+3	4	INT	40	60	100
VI	IV	MBE-II	U216PHME02:1	Digital Electronics	5	4	EXT	25	75	100
VI	IV	MBE-III	U216PHME03:1	Microprocessor 8085 and its applications	5	4	EXT	25	75	100
VI	III	Project		Group Project	3	3	EXT	20	80	100
VI	V	GS	U216XXGS01	Gender Studies	1	1	INT	25	75	100
VI	V	Extension		Extension Activities, NSS, NCC, YRC, SPORTS	-	1	INT	-	-	100

				Total Credits and Marks	30	27				800
				Total Credits and Marks	180	140				4200

TOTAL DISTRIBUTION OF HOURS, CREDITS & MARKS FOR UG PROGRAMME										
		SEMESTER	HOURS	CREDITS	TOTAL MARKS					
		I	30	16	500					
		II	30	27	800					
		III	30	18	600					
		IV	30	25	800					
		V	30	27	700					
		VI	30	27	800					
		TOTAL	180	140	4200					

NME OFFERED BY THE DEPARTMENT TO OTHER DEPARTMENT STUDENTS										
	PAR						EXT/			

SEM	T	COURSE		COURSE TITLE	HRS	CRD	INT	CIA	SE	TOTAL
III	IV	NME-I	U213PHNE01	Energy harvesting and Renewable energy resources	2	2	EXT	25	75	100
IV	IV	NME-II	U214PHNE02	Medical Physics	2	2	EXT	25	75	100
Allied Offered by the Department to other Department Students-Chemistry and Mathematics										
SEM	PAR T	COURSE		COURSE TITLE	HRS	CRD	EXT/ INT	CIA	SE	TOTAL
I	III	First Allied Course -I	U211PHAT01	Foundation Physics-I	4	3	EXT	25	75	100
II	III	First Allied Course -II	U212PHAT03	Foundation Physics-II	4	3	EXT	25	75	100
II	III	First Allied Practical	U212PHAP01	Practical: Foundation Physics Experiments	2	3	INT	40	60	100
Allied Offered by the Department to other Department Students-Computer Science										
SEM	PAR T	COURSE		COURSE TITLE	HRS	CRD	EXT/ INT	CIA	SE	TOTAL
I	III	First Allied Course -I	U211PHAT02	Applied Physics-I	4	3	EXT	25	75	100
II	III	First Allied Course -II	U212PHAT04	Applied Physics-II	4	3	EXT	25	75	100
II	III	First Allied Practical	U212PHAP02	Practical: Applied Physics Experiments	2	3	INT	40	60	100
OPTIONAL COURSES										
SEM	PAR T	COURSE		SUBJECT TITLE	CRD	EXT / INT	CIA	SE	TOTAL	
III	IV	SBE-I		Troubleshooting Electronic Equipment / Weather forecasting	2	EXT	25	75	100	

