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

M.Sc. Electronics

Revised CBCS - OBE - BASED Curriculum Structure

(For students admitted from 2021 onwards)

SEM	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
I	Core Course-I		Microcontroller 8051 and Embedded system	6	5	EXT	25	75	100
	Core Course- II		Digital Control System	6	5	EXT	25	75	100
	Core Course-III		VLSI Design and VHDL programming	6	5	EXT	25	75	100
	MBE-I		Nanotechnology and its Applications	6	4	EXT	25	75	100
	Core Practical-I		**Practical-I:**Embedded-C lab	6	4	EXT	40	60	100
			Total Credits and Marks	**30**	**23**				**500**

SEM	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
II	Core Course-IV		Digital Signal processing	6	5	EXT	25	75	100
	Core Course-V		Wireless Communication and Networks	6	5	EXT	25	75	100
	Core Course-VI		Solar Photovoltaics	7	5	EXT	25	75	100
	NME		Offered by other Departments	5	4	INT	25	75	100
	Core Practical - II		**Practical-II:**Communication Lab	6	4	EXT	40	60	100
			Total Credits and Marks	**30**	**23**				**500**

SEM	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
III	Core Course-VII		PLC and SCADA	6	5	EXT	25	75	100
	Core Course-VIII		Microcontroller ATMEGA and Embedded system	6	5	EXT	25	75	100
	MBE-II		Automotive Electronics	6	4	EXT	25	75	100
	MBE-III		Medical Electronics	6	4	EXT	25	75	100
	Core Practical-III		**Practical-III:**AVR Microcontroller Lab	6	4	EXT	40	60	100
			Total Credits and Marks	**30**	**22**				**500**

SEM	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
IV	Core Course- IX		Research Methodology	7	5	EXT	25	75	100
	Core Course- X		MEMS and their Applications	7	5	EXT	25	75	100
	MBE-IV		Computer System Architecture	6	4	EXT	25	75	100
			In-Plant Training	4	4	INT	40	60	100
			Project	6	4	EXT			100
			Total Credits and Marks	**30**	**22**				**500**
Grand Total				**120**	**90**				**2000**