COURSE DISTRIBUTION		
Core Courses	03	09 Credit Hours
Area of Specialization Elective Courses	04	12 Credit Hours
University Core Courses	02	06 Credit Hours
Mathematics Course	01	03 Credit Hours
Thesis	--	09 Credit Hours
Total		**39 Credit Hours**

CORE COURSES: POWER SYSTEMS			
S. No.	**Code**	**Course**	**Credit Hours**
1.	EPS-511	Advanced Electrical Machines	3
2.	EPS-512	Advanced Power Conversion	3
3.	EPS-513	Advance Power Systems	3
CORE COURSES: COMMUNICATION AND SIGNAL PROCESSING			
1.	CSP-511	Advanced Digital Signal Processing	3
2.	CSP-512	Information Theory and Coding	3
3.	CSP-513	Advanced Mobile and Wireless Communication	3
CORE COURSES : ELECTRONICS SYSTEMS DESIGN			
1.	ESD-511	Advanced Digital System Design	3
2.	ESD-512	Advanced VLSI Design	3
3.	ESD-513	Advanced Control Systems	3
CORE COURSES : ROBOTICS AND INTELLIGENT SYSTEMS			
1.	RIS-511	Robotics Mechanics & Control	3
2.	RIS-512	Machine Learning & Artificial Intelligence	3
3.	RIS-513	Modeling and Simulation	3
MATHEMATICS COURSE			
1.	MTS-511	Advanced Engineering Mathematics	3

		UNIVERSITY CORE COURSES	
1.	UCC-511	Research Methodologies	3
2.	UCC-512	Advanced Computational Mathematics	3

ELECTIVE COURSES

	Code	POWER SYSTEMS	
1	EPS-621	High Voltage DC Transmission	3
2	EPS-522	Industrial Drives - Power Electronics	3
3	EPS-523	Electric Vehicle Technology	3
4	EPS-624	Electric Machine Design	3
5	EPS-525	Distributed Generation & Microgrids	3
6	EPS-526	Steam and Gas Power Systems	3
7	EPS-527	Smart Grids	3
8	EPS-528	Electrical Power Quality	3
9	EPS-529	Power System Stability	3
10	EPS-531	Photovoltaic Power System Design	3
11	EPS-532	Wind Power System	3
12	EPS-534	Sustainable Energy System	3
13	EPS-535	Electricity Market	3
14	EPS-536	Power Economics & Management	3
		CONTROL SYSTEMS	
1	ESD-522	Industrial Automation and Control	3
2	ESD-523	Measurement and Process Control Systems	3
3	ESD-524	Neural Networks and Applications	3
		COMMUNICATION	
1	CSP -521	Wireless Sensor Networks	3
2	CSP -522	Broadband & Satellite Communication	3
3	CSP -523	Advanced Digital Communication	3
4	CSP -524	Advanced Optical Communication	3
		SIGNAL PROCESSING	
1	CSP -531	Adaptive Filter Theory	3
2	CSP -632	Array Signal Processing	3
3	CSP -633	Statistical Signal Processing	3
4	CSP -634	Signal Detection and Estimation	3
5	CSP -535	DSP with FPGAs	3
6	CSP -536	Digital Image Processing	3
ELECTROMAGNETICS & MICROWAVE			
1	CSP -541	Radar System Engineering	3
2	CSP -642	Microwave Circuit Design	3
3	CSP -643	Advanced Antenna Theory and Design	3
4	CSP -644	Microwave Networks & Passive Components	3
5	CSP -545	Selected Topics in Microwave Engineering	3
6	CSP -546	RF Mems Theory and Application	3
		ELECTRONICS	
1	ESD-531	Advanced Power Electronics	3
2	ESD-532	Embedded Systems	3
3	ESD-533	Electronic Materials and devices	3
4	ESD-534	Biomedical Electronics and systems	3
5	ESD-535	Sensor Technology	3
6	ESD-536	IC Design and Packaging Technologies	3
		ROBOTICS	
1	RIS -521	Bio-Medical Robotics	3
2	RIS -522	Mobile Robotics & Autonomous Navigation	3
3	RIS -523	Swarm Robotics & Bio Inspired Robotics	3
4	RIS -524	IoT Based Systems Design	3
5	RIS -525	Developmental Robotics	3
6	RIS -626	Deep Learning and Big Data Analytics	3
7	RIS -527	Fuzzy Systems	3
8	RIS -528	Human Computer Interface	3
		INTRA-DISCIPLINARY AREAS & REASERCH	
1	IDE-551	Optimization Techniques	3
2	IDE-552	Advanced Security and Cryptography	3
3	IDE-651	Advanced Probability and Stochastic Processes	3
4	IDE-553	Machine Learning Techniques	3
5	IDE-651	Autonomous Vehicle Design	3