

Curriculum Details - EE (POWER ELECTRONICS)

Semesters	Slots	Courses	Tutorial Hours	Lecture Hours	Practical Hours	Total Hours	Credits	
S1	A	OPTIMIZATION TECHNIQUES	0	4	0	4	4.00	
	B	ANALYSIS OF POWER ELECTRONIC SYSTEMS I	0	4	0	4	4.00	
	C	ADVANCED POWER SEMICONDUCTOR DEVICES	0	4	0	4	4.00	
	D	MODERN CONTROL THEORY	0	3	0	3	3.00	
	E		DIGITAL SIGNAL PROCESSING AND APPLICATIONS	0	3	0	3	3.00
			ENERGY MANAGEMENT IN ELECTRICAL SYSTEMS	0	3	0	3	3.00
			DIGITAL SIMULATION OF POWER ELECTRONIC SYSTEMS	0	3	0	3	3.00
			INDUSTRIAL CONTROL ELECTRONICS	0	3	0	3	3.00
			POWER SYSTEM CONTROL	0	3	0	3	3.00
	F	RESEARCH METHODOLOGY	2	0	0	2	2.00	
	S	SEMINAR I	0	0	2	2	2.00	
	U	SIMULATION	0	0	3	3	1.00	

		LABORATORY					
S2	A	ANALYSIS OF POWER ELECTRONICS SYSTEMS II	0	4	0	4	4.00
	B	FUNDAMENTALS OF ELECTRIC DRIVES	0	3	0	3	3.00
	C	FLEXIBLE AC TRANSMISSION SYSTEMS	0	3	0	3	3.00
	D	POWER QUALITY	0	3	0	3	3.00
		EXTRA HIGH VOLTAGE AC & DC TRANSMISSION	0	3	0	3	3.00
		TRANSIENT ANALYSIS IN POWER SYSTEM	0	3	0	3	3.00
		ROBOTICS & AUTOMATION	0	3	0	3	3.00
		MODELLING AND ANALYSIS OF ELECTRICAL MACHINES	0	3	0	3	3.00
	E	POWER SYSTEM STABILITY	0	3	0	3	3.00
		SWITCHED MODE POWER CONVERTERS	0	3	0	3	3.00
		SPECIAL ELECTRICAL MACHINES	0	3	0	3	3.00
		SMART GRID TECHNOLOGIES & APPLICATIONS	0	3	0	3	3.00
		DIGITAL CONTROL	0	3	0	3	3.00

	F	MINI PROJECT	0	0	4	4	2.00
	U	ADVANCED POWER ELECTRONICS LABORATORY	0	0	3	3	1.00
S3	A	POWER ELECTRONIC CONTROL OF SPECIAL ELECTRICAL MACHINES	0	3	0	3	3.00
		POWER ELECTRONICS FOR RENEWABLE ENERGY SYSTEMS	0	3	0	3	3.00
		EMBEDDED CONTROLLERS	0	3	0	3	3.00
		ADVANCED ELECTRIC DRIVES	0	3	0	3	3.00
		MICROCONTROLLER APPLICATIONS IN POWER CONVERTERS	0	3	0	3	3.00
	B	SOFT COMPUTING TECHNIQUES	0	3	0	3	3.00
		DISTRIBUTED GENERATION AND CONTROL	0	3	0	3	3.00
		HIGH VOLTAGE DC TRANSMISSION	0	3	0	3	3.00
		INDUSTRIAL INSTRUMENTATION	0	3	0	3	3.00
		DIGITAL CONTROLLERS IN POWER ELECTRONICS	0	3	0	3	3.00
		BIO INSPIRED	0	3	0	3	3.00

		ALGORITHM AND ITS APPLICATIONS					
	F1	PROJECT (PHASE 1)	0	0	12	12	6.00
	S	SEMINAR II	0	0	2	2	2.00
S4	F2	Project (Phase II)	0	0	21	21	12.00