

Curriculum Structure

Year 1, Semester -1					
S.N.	Course Code	Course	Credit Hours	Contact hours/week	Type
1	EPS 501	Computer Aided Power System Analysis	4	6	C
2	EPS 502	Distribution System Planning and Design	3	3	C
3	EPS 503	Advanced Power Electronics	3	5	C
4	EPS 504	Optimization Techniques	3	3	C
5	EPS 505	Power Market and Deregulation	3	3	C
		Total	16	20	

Year 1, Semester -2					
S.N.	Course Code	Course	Credit Hours	Contact hours/week	Type
1	EPS 551	Power System Dynamics and Stability	4	6	C
2	EPS 552	Advanced High Voltage Engineering	3	3	C
3	EPS 553	Power System Operation and Control	3	3	C
4	EPS 591	Seminar	2	2	C
5		Elective I	3	3	E
		Total	15	17	

Year 2, Semester -1					
S.N.	Course Code	Course	Credit Hours	Contact hours/week	Type
1	EPS 601	Power System Reliability	3	3	C
2	EPS 602	Engineering Project Planning and Management	3	3	C
3	EPS 603	Project	2	2	C
4		Elective II	3	3	E
5		Elective III	3	3	E
		Total	14	14	

Year 2, Semester -2					
S.N.	Course Code	Course	Credit Hours	Contact hours/week	Type
1	EPS 691	Dissertation	15	15	
		Total	15	15	
		Total Credits	60		

Elective Courses

Elective I

Course Code	Course
EPS 571	Advanced Electrical Drives
EPS 572	Dynamic Modeling of Electrical Machines
EPS 573	Flexible AC Transmission Systems
EPS 574	Micro Controller and DSP based System Design



Elective II

Course Code	Course
EPS 631	Advance Power System Protection
EPS 632	Distributed Generation and Micro Grid
EPS 633	Risk Assessments of Power System
EPS 634	Non-Linear Control System Design

Elective III

Course Code	Course
EPS 641	Power Quality and Harmonics
EPS 642	Artificial Intelligence Applications in Power System
EPS 643	Social and Environment Impact of Engineering System
EPS 644	Renewable Energy Sources and Grid Integration

