

# SPECIALIZATION IN POWER SYSTEM ENGINEERING

## 1<sup>st</sup> Semester

Sl. No.	Subject Code	Subject				Total	Credit
		Theory	L	T	P		
1	EX60001	University Level Subject Core	3	0	0	3	3
2	EE60109	School Level Common Mathematics Course	3	0	0	3	3
3	EE61301	Power System Analysis and Design	3	1	0	4	4
4	EE60301	Renewable Power Generation Technology	3	0	0	3	3
5	EE60303	Power System Stability and Control	3	0	0	3	3
6		Dept. Elective-I	3	0	0	3	3
<b>Total Theory</b>						19	19
<b>Practical</b>							
1	EE69301	Advance Power System Laboratory	0	0	2	2	1
2	EE69303	Power System Modeling and Control Laboratory	0	0	2	2	1
<b>Total Practical</b>						4	2
<b>Total Semester Credit</b>						23	21

## 2<sup>nd</sup> Semester

Sl. No.	Subject Code	Subject				Total	Credit
		Theory	L	T	P		
1	EE60110	School Level Common Core Course	3	0	0	3	3
2	EE60302	Computer Analysis in Power System	3	0	0	3	3
3	EE60304	Digital Protection in Power System	3	0	0	3	3
4		Dept. Elective-II	3	0	0	3	3
5		Dept. Elective-III	3	0	0	3	3
<b>Total Theory</b>						15	15
<b>Practical</b>							
1	EE69102	Industrial Automation Laboratory	0	0	2	2	1
<b>Total Practical</b>						2	1
<b>Sessional</b>							
1	EE68102	Modeling, Analysis and Design of Electrical System	0	0	2	2	1
2	EE68304	Comprehensive Viva-Voce	0	0	0	0	2
<b>Total Sessional</b>						2	3
<b>Total Semester Credit</b>						19	19

### 3<sup>rd</sup> Semester

			L	T	P	Credit
1		Open Elective/Industry Elective	3	0	0	3
2	EE68301	Seminar	0	0	2	1
3	EE67301	Thesis Part-I				16
		<b>Total Semester Credit</b>				<b>20</b>

### 4<sup>th</sup> Semester

1	EE67302	Thesis Part-II	-			<b>20</b>
---	---------	----------------	---	--	--	-----------

### Electives for Specialization in POWER SYSTEM ENGINEERING

#### Elective-I

Subject Code	Subject	Credit
EE60311	Power System Transients	3
EE60111	Flexible AC Transmission System	3
EE60113	Power Electronics for Utility Interface	3
EE60213	Reactive power control and Management	3

#### Elective-II

Subject Code	Subject	Credit
EE60202	Power Quality Issues and Mitigation	3
EE60114	Intelligent Techniques	3
EE60312	Distributed Generation	3
EE60204	Energy Management and Audit	3

#### Elective-III

Subject Code	Subject	Credit
EE60314	High Voltage DC Transmission System	3
EE60316	Smart Grid Technology	3
EE60318	Restructuring of Power System	3
EE60320	Harmonics Elimination Techniques in Electrical System	3