

**AFFILIATED INSTITUTIONS**  
**ANNA UNIVERSITY CHENNAI 600 025**  
**REGULATIONS – 2013**  
**CURRICULUM I TO VI SEMESTERS (PART TIME)**  
**M.E. POWER SYSTEMS ENGINEERING**

**SEMESTER I**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	MA7163	Applied Mathematics for Electrical Engineers	3	1	0	4
2	PS7101	Advanced Power System Analysis	3	1	0	4
3	PS7102	Power System Operation and Control	3	0	0	3
<b>TOTAL</b>			<b>9</b>	<b>2</b>	<b>0</b>	<b>11</b>

**SEMESTER II**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	PS7201	Power System Dynamics	3	0	0	3
2	PS7203	Advanced Power System Protection	3	0	0	3
3	PS7204	Restructured Power System	3	0	0	3
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>

**SEMESTER III**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	PS7103	Electrical Transients in Power Systems	3	0	0	3
2	CL7103	System Theory	3	0	0	3
3		Elective I	3	0	0	3
<b>PRACTICAL</b>						
4	PS7111	Power System Simulation Laboratory	0	0	3	1
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>3</b>	<b>10</b>

**SEMESTER IV**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	PS7202	Flexible AC Transmission Systems	3	0	0	3
2		Elective II	3	0	0	3
3		Elective III	3	0	0	3
<b>PRACTICAL</b>						
4	PS7211	Advanced Power System Simulation Laboratory	0	0	3	1
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>3</b>	<b>10</b>

### SEMESTER V

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1		Elective IV	3	0	0	3
2		Elective V	3	0	0	3
3		Elective VI	3	0	0	3
<b>PRACTICAL</b>						
4	PS7311	Project work (Phase I)	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

### SEMESTER VI

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>PRACTICAL</b>						
1	PS7411	Project work (Phase II)	0	0	24	12
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>

**TOTAL NUMBER OF CREDITS = 67**

### ELECTIVES OF POWER SYSTEMS ENGINEERING

SL.NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>ELECTIVE I</b>						
1.	ET7102	Microcontroller Based System Design	3	0	0	3
2.	PX7101	Analysis of Electrical Machines	3	0	0	3
3.	PX7103	Analysis and Design of Inverters	3	0	0	3

<b>ELECTIVE II &amp; III</b>						
1.	PX7204	Power Quality	3	0	0	3
2.	PS7001	Optimization Techniques	3	0	0	3
3.	CL7204	Soft Computing Techniques	3	0	0	3
4.	PS7002	Energy Management and Auditing	3	0	0	3
5.	ET7006	Advanced Digital Signal Processing	3	0	0	3
6.	PS7003	Distributed Generation and Micro Grid	3	0	0	3

<b>ELECTIVE IV,V &amp; VI</b>						
1.	PS7004	Solar and Energy Storage Systems	3	0	0	3
2.	PS7005	High Voltage Direct Current Transmission	3	0	0	3
3.	PS7006	Industrial Power System Analysis and Design	3	0	0	3
4.	PS7007	Wind Energy Conversion Systems	3	0	0	3
5.	PS7008	Smart Grid	3	0	0	3
6.	PS7009	Advanced Power System Dynamics	3	0	0	3
7.	PX7301	Power Electronics for Renewable Energy Systems	3	0	0	3
8.	ET7014	Application of MEMS Technology	3	0	0	3
9.	PS7010	Power System Planning and Reliability	3	0	0	3

