

**AFFILIATED INSTITUTIONS**  
**ANNA UNIVERSITY::CHENNAI 600 025**  
**REGULATIONS – 2013 (PART TIME)**  
**CURRICULUM FROM I TO VI SEMESTERS FOR**  
**M.E POWER ELECTRONICS AND DRIVES**  
**I SEMESTER**

SL.N O	CODE	SUBJECT	L	T	P	C
<b>THEORY</b>						
1	MA7163	Applied Mathematics for Electrical Engineers	3	1	0	4
2	PX7101	Analysis of Electrical Machines	3	0	0	3
3	PX7102	Analysis of Power Converters	3	0	0	3
<b>TOTAL</b>			<b>9</b>	<b>1</b>	<b>0</b>	<b>10</b>

**II SEMESTER**

SL.NO	CODE	SUBJECT	L	T	P	C
<b>THEORY</b>						
1	PX7201	Solid State DC Drives	3	0	0	3
2	PX7203	Special Electrical Machines	3	0	0	3
3	PX7204	Power Quality	3	0	0	3
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>

**III SEMESTER**

SL.N O	CODE	SUBJECT	L	T	P	C
<b>THEORY</b>						
1	PX7103	Analysis and Design of Inverters	3	0	0	3
2	PX7104	Advanced Power Semiconductor Devices	3	0	0	3
3		Elective I	3	0	0	3
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>

**IV SEMESTER**

SL.NO	CODE	SUBJECT	L	T	P	C
<b>THEORY</b>						
1	PX7202	Solid State AC Drives	3	0	0	3
2		Elective II	3	0	0	3
3		Elective III	3	0	0	3
<b>PRACTICAL</b>						
4	PX7211	Power Electronics and Drives Lab	0	0	3	2
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>3</b>	<b>11</b>

### V SEMESTER

SL.NO	CODE	SUBJECT	L	T	P	C
<b>THEORY</b>						
1	PX7301	Power Electronics for Renewable Energy Systems	3	0	0	3
2		Elective IV	3	0	0	3
3		Elective V	3	0	0	3
<b>PRACTICAL</b>						
4	PX7311	Project work (Phase I)	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

### VI SEMESTER

SL.NO	CODE	SUBJECT	L	T	P	C
1	PX7411	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 = 66**

### ELECTIVES OF POWER ELECTRONICS AND DRIVES

#### ELECTIVE I

SL.NO	CODE	SUBJECT	L	T	P	C
1	CL7103	System Theory	3	0	0	3
2	ET7102	Microcontroller Based System Design	3	0	0	3
3	PX7001	Electromagnetic Field Computation and Modelling	3	0	0	3

#### ELECTIVE II & III

SL.NO	CODE	SUBJECT	L	T	P	C
1.	CL7204	Soft Computing Techniques	3	0	0	3
2.	EB7212	Digital Simulation of Power Electronic Circuits Laboratory	0	0	3	2
3.	ET7201	VLSI Architecture and Design Methodologies	3	0	0	3
4.	PS7202	Flexible AC Transmission Systems	3	0	0	3
5.	PS7002	Energy Management and Auditing	3	0	0	3
6.	PX7002	SMPS and UPS	3	0	0	3

#### ELECTIVE IV & V

SL.NO	CODE	SUBJECT	L	T	P	C
1.	PS7005	High Voltage Direct Current Transmission	3	0	0	3
2.	ET7014	Application of MEMS Technology	3	0	0	3
3.	PS7004	Solar and Energy Storage Systems	3	0	0	3
4.	PS7007	Wind Energy Conversion Systems	3	0	0	3
5.	PX7003	Non Linear Dynamics for Power Electronics Circuits	3	0	0	3
6.	PS7008	Smart Grid	3	0	0	3