AFFILIATED INSTITUTIONS
ANNA UNIVERSITY CHENNAI 600 025
REGULATIONS – 2013
CURRICULUM I TO VI SEMESTERS (PART TIME)
M.E. ELECTRICAL DRIVES AND EMBEDDED CONTROL

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MA7163	Applied Mathematics for Electrical Engineers	3	1	0	4
2	EB7101	Analysis of Converters and Inverters	3	1	0	4
3	EB7102	Modeling and Analysis of DC Drives	3	0	0	3
		TOTAL	9	2	0	11

SEMESTER II

SL NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	ET7201	VLSI Architecture and Design Methodologies	3	0	0	3
2	EB7203	Modeling and Analysis of AC Drives	3	0	0	3
PRACTICAL						
3	EB7212	Digital Simulation of Power Electronic Circuits Laboratory	0	0	3	2
		TOTAL	6	0	3	8

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	ET7104	Design of Embedded Systems	3	0	0	3
2	CL7103	System Theory	3	0	0	3
3		Elective I	3	0	0	3
		TOTAL	9	0	0	9

SEMESTER IV

SL NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	EB7202	Control of Electric Drives	3	0	0	3
2		Elective II	3	0	0	3
3		Elective III	3	0	0	3
4	EB7211	Electric Drives Laboratory	0	0	3	2
		TOTAL	9	0	3	11

SEMESTER V

SL NO.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1		Elective IV	3	0	0	3
2		Elective V	3	0	0	3
3		Elective VI	3	0	0	3
PRACTICAL						
4	EB7311	Project Work (Phase I)	0	0	12	6
		TOTAL	9	0	12	15

SEMESTER VI

SL NO.	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1	EB7411	Project Work (Phase II)	0	0	24	12
		TOTAL	0	0	24	12

TOTAL NUMBER OF CREDITS = 66

ELECTIVES FOR ELECTRICAL DRIVES AND EMBEDDED CONTROL

ELECTIVE I

SL NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1	ET7001	Digital Instrumentation	3	0	0	3
2	ET7102	Microcontroller Based System Design	3	0	0	3
3	ET7103	Real Time Systems	3	0	0	3

ELECTIVE II & III

SL NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1	ET7004	Programming with VHDL	3	0	0	3
2	PX7204	Power Quality	3	0	0	3
3	ET7006	Advanced Digital Signal Processing	3	0	0	3
4	ET7003	Design of Embedded Control Systems	3	0	0	3
5	ET7204	Software for Embedded Systems	3	0	0	3
6	PX7203	Special Electrical Machines	3	0	0	3

ELECTIVE IV, V & VI

SL NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1	CL7005	Optimal Control and Filtering	3	0	0	3
2	ET7014	Application of MEMS Technology	3	0	0	3
3	PX7301	Power Electronics for Renewable Energy Systems	3	0	0	3
4	CL7004	Robotics and control	3	0	0	3
5	CL7007	System Identification and Adaptive Control	3	0	0	3
6	PS7004	Solar and Energy Storage Systems	3	0	0	3
7	ET7012	Computer in Networking and Digital Control	3	0	0	3
8	PS7007	Wind Energy Conversion Systems	3	0	0	3
9	CL7002	Robust Control	3	0	0	3