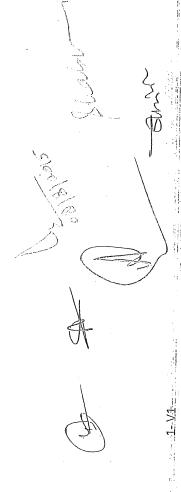
# 2 Year M. Tech Programme in Power Electronics and Drives

# Course Structure (2015-17 onwards)

		Compositor I			
S.No.	Subject Code	Course Course	£	-	Course Type
	THEORY	Compes	7-1-2	Credits	
					-
].	MA406/MA507/	Operation Research /Optimization Techniques/	3-1-0	4	FGE-D1
	MA402	Modeling and Simulation		•	
2.	EE501	Power Electronics Devices and Momoring	0		
C	EE503	1 1. CE:	3-0-0	3	C-DI
	EE303	Modeling of Electrical Apparatus	3-0-0	3	C-D2
4	EE505	DC Power Converters	3-0-0	3	200
		Flective_1			CU-0
7		1-241707	3-0-0	3	EDSE-D1
		Open Elective	3-0-0	3	OE-D1
	PRACTICALS				
7	FF513	Λ Αίνουσο Πουνιστ. ΤΙ			
. 0	נונטט	Auvalice Fower Electronics Lab	0-0-3	7	C-D4 ·
0	<b>DEDY</b> /	Seminar	0-0-3	2	SEC1
	GP	General Proficiency		OIV	
		Total		140	
		Total Contoot II			
		Total Contact mours	25		

Open Elective: Courses offered from other school



		Semester-T			Ę	_
	Subject Code	TI VOCATIO)	,		Course Type	•
E	THEORY	Contract	L-T-P	Credits		
~	MA406/MA507/	Operation Research /Optimization Techniques/	3-1-0	4	FGE-D2	
	MA402	Modeling and Simulation	) (			
田	EE502	Industrial Instrumentation and Antomation	000	2	7	
ÏЛ	EE504	Electric Drive Systems	0-0-0	0 (	C-D3	
Ш	EE506	Digital Controllers Architecture and Interfacing	3-0-0	0 (1)	C-D6	
		Specialized Flective-I	0	,	7 2 0	
P.	PRACTICALS		0-0-0	0	EDSE-DZ	
回	EE598	Project	0.00	Ų	1 1 1 1	
山	EE516	Advance Electric Drives Lah	01-0-0		EUK-U1	
			0-0-0	7	C-D8	
10			8 45			
빙	_	General Proficiency		CZ		
.		Total		23		
		Total Contact Hours	29	2		

		Semester-III			Cary Course
N.O.	Subject Code	Courses	T_T	T.T.P Crodits	Course Type
	THEORY		7	CICAILS	
	EEC01	Second Electromechanical Devices	3-0-0	C	J. D.
	EE603	HVDC and Flexible AC Transmission Systems	3-0-0	) ((	0147
		Devices	)	)	010
		Specialized Elective-II	3-0-0	(r	FUSE-D3
		Specialized Elective-III	3-0-0	n	על-בטלבו
	PRACTICALS				+ת-תיתו
	EE699	Dissertation -I	0 0 #7	C	4 4 4 4
	7777	I TOTAL TACEO	00-0	X	EDF-D2
	<b>たい</b> なら	Power Converter and Simulation Lab	0-0-3	. 2	C-D11
			,		
	GP	General Proficiency		NO	
	-	Total		22	
				and Area	

		Course Trans	Course Type		בת פתב	נט- וטט					
			L.T.P Cradite	CIPOLIC	22	77	JV.		77	44	
	24		T.T.	1							
	I otal Contact Hours	Semester-IV	Courses		Dissertation -II	General Proficiency			Total	Total C. 1- 1- 1	10tal Contact Hours
			Subject Code	THEORY	EE698	GP					
			S.No.		J	2.					

## Total Program Credits: 90

#### Elective-I

EE507: Advance AI and Soft Computing Techniques

EE509: Drive Systems and Optimization Techniques

EE511: Nonlinear Control Systems

EE589: Wavelet methods in Engineering

EE543: Embedded System

EE665: Research Techniques and Methodology M.Tech. (PS) Sem-J Electives

#### Specialized Elective-I

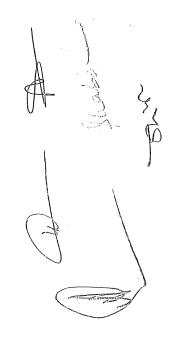
EE508: AC Power Converter

EE510: HVAC Transmission and Technology

EE514: Control and Estimation of Electric Drive EE512: Custom Power Devices and Technology

M.Tech. (PS) Sem-II Electives

#### Specialized Elective-III EE605: Power Quality



EE609: Applications of Converters for Renewable Energy Systems EE607: Energy Storage Systems and Charging Control EE611: Smart Grid

M.Tech. (PS) Sem-III Electives

### Specialized Elective-III

EE613: Supervisory Control and Distribution Automation EE621: Computer Aided Design of Electrical Apparatus EE617: Digital Signal Processing and its Applications EE619: Robotics and Vehicular Power Electronics EE615: Distribution Generation System & Design M.Tech. (PS) Sem-III Electives

#### Nomenclature:

- 1. AEC: Ability Enhancement Courses
- AEC-C: Ability Enhancement Courses-compulsory
  - SEC: Skill Enhancement Course
    - CC: Core Course
    - Elective Courses ci
- E-DSE: Discipline specific elective
  - E-GE: Generic Elective
- E-DP: Dissertation and Project

