Gautam Buddha University

School of Engineering

Course Structure of 2 Year M.Tech Programme in Power Systems Engineering (2015-17 onwards)

		SEMESTER-I			
Sr. No.	Subject Code	Courses	L-T-P	Credit	Course Type
		THEORY		S	
	MA406/MA	Oneration Research /Ontimization T1.	,		
		Charles are sealed / Optimization 1 echniques/	3-1-0	4	EGE-P1
	50 //MA402	Modeling and Simulation			
2.	EE571	Power System Analysis and Control	200	,	
Ç	FE472	Device Of the T	3-0-0	Ç	C-F1
	17777	rower system transients	3-0-0	ω	C-P2
4.	EE575	Renewable & Non Conventional Energy Sources	3-0-0	Cı	24.0
٧.		(Flactine T)	0-0-0		C-F3
;	ŧ	(T-2017)	3-0-0	n	EDSE-P1
9.		Open Elective	000	-	ŗ
		PRACTICAL &	0-0-0		OE-F1
ı	ייייית				
.,	エヒンソ 1	Power System Lab	0-0-3	2	C_D/
∞.	EE597	Seminar	0-0-3	1 0	CTC1
				7	SEC.I
0	αĐ				
	J.O.	General Proficiency	1	NC	
		Total		23	
		Total Contact Hours	25	1	
Open Fier	TIVES: COLITCES	Oben Flertives: Courses offered from ather are all	3	-	

n Electives: Courses offered from other school

	22	DC.
General Proficiency	Total	Total Contact Hours
8. GP		

** This will not be a usual lecture session, but this is one to one interaction of each student with the concerned faculty member

	Course	lype	ロンドードン				
	Credits	77	7.7	NC	22	44	
	L-T-P	- 5 41 40		-			22
SEMESTER-IV	Courses	Dissertation-II		General Proficiency	Total	E	1 otal Contact Hours
	Subject Code	EEP 698					
	Sr. No.	1.	C	.7			

Grand Total Credits of Degree = 90

List of Electives for M. Tech (Power System)

Elective-I

- EE577: Reliability Analysis & Prediction
- EE579: Failure Data Organization and Analysis
 - EE581: Restructured Power System
- EE583: Power Conditioning









- EE585: Power Converters & Applications
- 6. EE587: Project Engineering & Management
 - . EE589: Wavelet Methods in Engineering
- M.Tech. (PED)-I sem. Elective

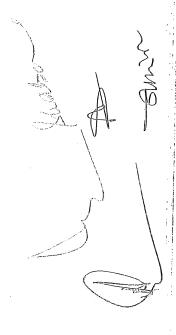
Specialization Elective-I

- 1. EE578: Computer Aided Design of Electrical Machines
 - EE580: Reliability Centered Maintenance
- EE582: Power Sector Economics and Management
 - EE584: EHVAC Transmission
- EE586: Modeling and Analysis of Electrical Machines
 - 6. M.Tech. (PED)-II sem. Elective

Specialization Elective -II

- 1. EE675: Computer Applications to Power System Analysis
- . EE677: Control & Operation of Active Distribution Network
 - 3. EE679: Power Quality Analysis and Mitigation
 - f. EE681: Soft Computing Techniques
- . EE683: Distributed Generation & Microgrids
- 6. M.Tech. (PED)-III sem. Elective





Specialization Elective -III

- 1. EE685: SCADA and Phaser Measurement Unit
- EE687: Optimal Control Theory and Power System Applications
 - EE689: Demand Side Management
- EE691: Power System Optimization
- EE693: Optimization Techniques for Electrical Engg.
- 6. EE695: Distribution System Analysis & Control
- 7. M.Tech. (PED)-III sem. Elective

Nomenclature:

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

