JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR ANANTHAPURAMU (A.P.)

COURSE STRUCTURE AND SYLLABUS

(For Affiliated Engineering Colleges w.e.f. 2017-18 Admitted Batch) M.TECH - ELECTRICAL POWER ENGINEERING, **ELECTRICAL POWER SYSTEMS and POWER SYSTEM**

M.Tech I Semester

S.No	Subject	Subject	L	T	P	C
	Code					
1.	17D49101	Advanced Power System Protection	4	-	-	4
2.	17D49102	Machine Modeling and Analysis	4	-	-	4
3.	17D49103	Optimization & Heuristic Search Techniques	4	-	-	4
4.	17D49104	Restructured Power Systems	4	-		4
5.		Elective-I	4	-	-	4
	17D49105	1. Modern Control Engineering & Principles of Optimal Control			A	0
	17D49106	2. FACTS Controllers		4	4.4	
	17D49107	3. Solar Energy Conversion Systems		1		
6.	17D49108	Elective-II 1. Power System Wide Area Monitoring & Control 2. Energy Auditing and Management	4			4
	17D49109	2. Energy Auditing and Management3. State Estimation Techniques				
7.	17D49110	1			4	2.
/.	17D49111	Machines & Power Systems Lab		-	4	
TOTAL			22	•	04	26

M.Tech II Semester

S.No	Subject	Subject	L	T	P	С
	Code					
1.	17D49201	Reliability Engineering and Application to	4	-	-	4
	A	Power Systems				
2.	17D49202	Power Quality	4	-	-	4
3.	17D49203	Smart Grid Technologies	4	-	-	4
4.	17D49204	Power System Stability & Control	4	-		4
5.		Elective-III	4	-	-	4
	17D49205	1. Reactive Power Compensation &				
		Management				
	17D49206	2. Power System Optimization				
	17D49207	3. HVDC & EHVAC Transmission Systems				
6.		Elective-IV	4	-	-	4
	17D49208	1. Distributed Generation & Micro grid				
		Control				
	17D49209	2. Wind Energy Conversion Systems				
	17D49210	3. Intelligent Control Techniques				
7.	17D49211	Power System Simulation Lab	-	-	4	2
	TOTAL			-	04	26