ACHARYANAGARJUNAUNIVERSITY
NAGARJUNA NAGAR
FOUR SEMESTER M.TECH DEGREE COURSE
IN
POWER SYSTEMS ENGINEERING
w.e.f. : 2015-2016

S.No.	Course Number	Subject	Periods/week		Internal marks	End Semester Examination		Credits
			L+T	P		Duration	Marks	
First Semester								
1.	MT/PSE 511	Modern Control Theory	4	--	40	3	60	4
2.	MT/PSE 512	Advanced Power System Protection	4	--	40	3	60	4
3.	MT/PSE 513	Computer Methods in Power Systems	4	--	40	3	60	4
4.	--	Elective Subject – 1	4	--	40	3	60	4
5.	--	Elective Subject – 2	4	--	40	3	60	4
6.	--	Elective Subject – 3	4	--	40	3	60	4
7.	MT/PSE 551	Power Systems Lab	--	3	40	3	60	2
8.	MT/PSE 552	Simulation Lab – I	--	3	100	--	--	2
		TOTAL	24	6	380	--	420	28
Second Semester								
1.	MT/PSE 514	Flexible AC Transmission Systems	4	--	40	3	60	4
2.	MT/PSE 515	Power System Stability	4	--	40	3	60	4
3.	MT/PSE 516	Real time control of Power Systems	4	--	40	3	60	4
4.	--	Elective Subject – 4	4	--	40	3	60	4
5.	--	Elective Subject – 5	4	--	40	3	60	4
6.	--	Elective Subject – 6	4	--	40	3	60	4
7.	MT/PSE 553	Simulation Lab – II	--	3	40	3	60	2
8.	MT/PSE 554	Seminar	--	3	100	--	--	2
		TOTAL	24	6	380	--	420	28
Third Semester								
1.	MT/PSE 711	Summer Internship	--	--	100	-[-	--	2
2.	MT/PSE 712	Project Seminar	--	--	100	--	--	6
		TOTAL	--	--	200	--	--	8
Fourth Semester								
1.	MT/PSE 713	Project Viva	--	--	50	--	150	16
		TOTAL	--	--	50	--	150	16

List of electives:

Subject Code	Subject Title	Prerequisite
PSE 611	Operations Research	
PSE 612	Power System Reliability	--
PSE 613	Advanced Microprocessors & Micro controllers	--
PSE 614	Solid State Power Converters	--
PSE 615	Demand side Energy Management	--
PSE 616	Computer Networks	--
PSE 617	EHV AC Transmission Systems	High Voltage Engineering & Insulation
PSE 618	High Voltage Engineering & Insulation	--
PSE 619	Power Plant Instrumentation	--
PSE 620	HVDC Transmission Systems	Solid State Power Converters
PSE 621	Power Quality	--
PSE 622	Digital Control Systems	Modern Control Theory
PSE 623	Electrical Distribution Systems	--
PSE 624	Voltage Stability	--
PSE 625	Electrical Smart Grids	--
PSE 626	AI Techniques	--
PSE 627	Power System Deregulation	--
PSE 628	Energy Conservation & Audit	--