

ACHARYA NAGARJUNA UNIVERSITY
NAGARJUNA NAGAR
FOUR SEMESTER M.TECH DEGREE COURSE
IN
POWER SYSTEMS ENGINEERING
w.e.f. 2011-2012

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	--	30	3	70	4
2.	MT/PSE 512	Advanced Power System Protection	4	--	30	3	70	4
3.	MT/PSE 513	Computer Methods in Power Systems	4	--	30	3	70	4
4.	MT/PSE 514	Elective – I	4	--	30	3	70	4
5.	MT/PSE 515	Elective – II	4	--	30	3	70	4
6.	MT/PSE 516	Elective – III	4	--	30	3	70	4
7.	MT/PSE 551	Power Systems Lab	--	3	30	3	70	2
8.	MT/PSE 552	Simulation Lab – I	--	3	100	--	--	2
		TOTAL	24	6	310	--	490	28
Second Semester								
1.	MT/PSE 521	Flexible AC Transmission Systems	4	--	30	3	70	4
2.	MT/PSE 522	Power System Stability	4	--	30	3	70	4
3.	MT/PSE 523	Real time control of Power Systems	4	--	30	3	70	4
4.	MT/PSE 524	Elective – IV	4	--	30	3	70	4
5.	MT/PSE 525	Elective – V	4	--	30	3	70	4
6.	MT/PSE 526	Elective – VI	4	--	30	3	70	4
7.	MT/PSE 561	Simulation Lab – II	--	3	30	3	70	2
8.	MT/PSE 562	Seminar	--	3	100	--	--	2
		TOTAL	24	6	310	--	490	28
Third Semester								
1.	MT/PSE 611	Project Seminar	--	--	100	--	--	8
		TOTAL	--	--	100	--	--	8
Fourth Semester								
1.	MT/PSE 621	Project Work	--	--	50	--	150	16
		TOTAL	--	--	50	--	150	16

List of electives:

Elective – I

MT/PSE 514/1 Operations Research
MT/PSE 514/2 Power System Reliability
MT/PSE 514/3 Advanced Microprocessors & Micro controllers

Elective – II

MT/PSE 515/1 Solid State Power Converters
MT/PSE 515/2 Demand side Energy Management
MT/PSE 515/3 Computer Networks

Elective – III

MT/PSE 516/1 EHV AC Transmission Systems
MT/PSE 516/2 High Voltage Engineering & Insulation
MT/PSE 516/3 Power Plant Instrumentation

Elective – IV

MT/PSE 524/1 HVDC Transmission Systems
MT/PSE 524/2 Power Quality
MT/PSE 524/3 Digital Control Systems

Elective – V

MT/PSE 525/1 Electrical Distribution Systems
MT/PSE 525/2 Voltage Stability
MT/PSE 525/3 Power System Planning

Elective – VI

MT/PSE 526/1 AI Techniques
MT/PSE 526/2 Power System Deregulation
MT/PSE 526/3 Energy Conservation & Audit