JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

Course Structure and Detailed Syllabi for

M.Tech., Power Electronics and Electrical Drives (PE&ED)
Power Electronics (PE) & Power Electronics & Drives (PED),
Power & Industrial Drives (PID)
Offered by Department of EEE
for affiliated Engineering Colleges 2012-13

I YEAR I SEMESTER

S.	Course	Subject	Theory	Lah	Credits
No	code	Subject	Theory	Lab.	Credits
1.	9D49101	Modern Control Theory	4		4
2.	9D49102	Microprocessor and Microcontrollers	4		4
3.	9D54103	Principles of Machine modeling Analysis	4		4
4.	9D54104	Analysis of Power Electronic Converters	4		4
5.	9D54105	Power Electronic Control of DC Drives	4		4
6.		Elective-I	4		4
	9D49106a	a. Advanced Digital Signal Processing			
	9D49106b	b. Neural Networks and Fuzzy Systems			
7.	9D54107	Power Converters Lab		3	2
		contact periods/week	24	3	
			Total 27	'	26

I YEAR II SEMESTER

S.	Course Code	Subject	Theory	Lab.	Credits
No 1	9D49201	Flexible AC Transmission Systems	4		4
2.		HVDC Transmission	4		4
	9D49202 9D54203	Power Electronic Control of AC Drives	4		4
	9D54204	Advanced Power Semiconductor Devices	·		4
		& Protection			
5.	9D54205	Modern Power Electronics	4		4
6.		Elective-II	4		4
	9D49206a	a. Programmable Logic Controllers			
	9D49206b	b. Energy Auditing, Conservation And			
		Management			Ť
7.	9D54207	Electrical Systems Simulation Lab		3	2
		contact periods/week	24	3	
			Total 27		26

II YEAR (III & IV Semesters)

S.	Course	Subject	credits
No	code	Subject	creates
1	9D54401	Seminar	2
2	9D54202	Project work	16