

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Scheme of Instruction and Evaluation for Two Year Postgraduate Programme
M.TECH. (POWER ELECTRONICS)

SEMESTER-I

Course Code	Course Name	Periods			Credits	Evaluation Scheme				
		L	T	P		CIE			ESE	Total Marks
						TA	MSE	Total		
P14PE101	Machine Modeling & Analysis	3	1	0	4	15	25	40	60	100
P14PE102	Analysis of Power Electronic Converters	3	1	0	4	15	25	40	60	100
P14PE103	Modern Control Theory	3	1	0	4	15	25	40	60	100
P14PE104	Power Electronic Control of DC Drives	3	1	0	4	15	25	40	60	100
P14PE105	Elective -I	3	1	0	4	15	25	40	60	100
P14PE106	Elective -II	3	1	0	4	15	25	40	60	100
P14PE107	Power Electronics Laboratory	0	0	3	2	40	-	40	60	100
P14PE108	Power Electronic Simulation Lab	0	0	3	2	40	-	40	60	100
P14PE109	Seminar	-	-	-	2	-	-	100	-	100
Total		18	6	6	30			420	480	900

Elective -I

P14PE105 A High Voltage DC Transmissions
P14PE105 B Design of Digital Systems
P14PE105 C Optimization Techniques
P14PE105 D Modeling and Simulation of Power Electronic Systems

Elective -II

P14PE106 A Alternative Sources of Electrical Energy
P14PE106 B Dynamics of Electrical Machines
P14PE106 C Electro Magnetic Interference and Compatibility
P14PE106 D Reliability Engineering

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Course Code	Course Name	Periods			Credits	Evaluation Scheme				
		L	T	P		CIE			ESE	Total Marks
						TA	MSE	Total		
P14PE201	Power Electronic Control of AC Drives	3	1	0	4	15	25	40	60	100
P14PE202	Digital Signal Processors	3	1	0	4	15	25	40	60	100
P14PE203	Advanced Power Electronics	3	1	0	4	15	25	40	60	100
P14PE204	Artificial Intelligence Applications in Electrical Engineering	3	1	0	4	15	25	40	60	100
P14PE205	Elective -III	3	1	0	4	15	25	40	60	100
P14PE206	Elective -IV	3	1	0	4	15	25	40	60	100
P14PE207	Electric Drives Laboratory	0	0	3	2	40	-	40	60	100
P14PE208	Digital Signal Processors Laboratory	0	0	3	2	40	-	40	60	100
P14PE209	Comprehensive Viva-Voce	-	-	-	2	-	-	-	100	100
Total		18	6	6	30			320	580	900

Elective -III

- P14PE205 A Digital Control Systems
- P14PE205 B Power Quality
- P14PE205 C Microprocessor and Microcontroller
- P14PE205 D Applications of Power Converters

Elective -IV

- P14PE206 A Electrical Machine Design
- P14PE206 B Electric Smart Grid
- P14PE206 C Digital Signal Processor Controlled Drives
- P14PE206 D Flexible AC Transmission Systems (FACTS)

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SEMESTER-III

Course Code	Course Name	Periods	Credits	Evaluation Scheme				
				TA	MSE	Total	ESE	Total Marks
P14PE301	Industrial Training	8 weeks	4	100	-	100	-	100
P14PE302	Dissertation	16 weeks	8	100	-	100	-	100
Total			12	-	-	200	-	200

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SEMESTER-IV

Course Code	Course Name	Periods	Credits	Evaluation Scheme				
				TA	MSE	Total	ESE	Total Marks
P14PE401	Dissertation	24 weeks	12	40	-	40	60	100
Total			12	-	-	40	60	100