



Vidya Jyothi Institute of Technology

An Autonomous Institution

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical & Electronics Engineering

Course	B.TECH
Year - Semester	II Year – I Semester
Regulation	R15

A13012	MATHEMATICS - IV											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211.1	3	2	-	2	-	-	-	-	-	-	2	-
C211.2	3	2	-	2	-	-	-	-	-	-	-	-
C211.3	2	-	-	1	-	-	-	-	-	-	-	-
C211.4	3	-	-	-	-	-	-	-	-	-	1	-
C211.5	1	1	-	-	-	-	-	-	-	-	1	-
	2.4	2.5	-	2.5	-	-	-	-	-	-	1.33	-

A13401	ELECTRONIC DEVICES & CIRCUITS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212.1	3	3	3	3	1	3	-	-	2	-	-	-
C212.2	3	3	2	3	1	3	-	-	2	-	-	-
C212.3	2	2	2	2	1	3	-	-	2	-	-	-
C212.4	2	2	2	2	1	2	-	-	2	-	-	-
C212.5	2	2	2	2	1	2	-	-	2	-	-	-
	2.4	2.4	2.2	2.4	1	2.6	-	-	2	-	-	-

A13204	NETWORK THEORY											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	3	3	3	2	1	1	1	-	1	-	-	2
C213.2	3	3	1	2	1	2	1	-	1	-	-	1
C213.3	3	1	1	2	1	2	1	-	1	-	-	1
C213.4	3	3	3	2	1	2	1	-	1	-	-	1
C213.5	3	3	3	2	1	2	1	-	1	-	-	1
	3	6	2.2	2	1	1.8	1	-	1	-	-	1.2

A13205	ELECTROMAGNETIC FIELDS
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3	3	2	3	2	2	2	1	1	1	1	1
C214.2	3	3	2	3	1	1	3	1	1	1	1	1
C214.3	3	3	3	3	1	1	2	1	1	1	1	1
C214.4	3	3	3	3	1	1	2	1	1	1	1	1
C214.5	3	3	3	3	1	1	2	1	1	1	1	1
	3	3	2.6	3	1.2	1.2	2.2	1	1	1	1	1

A13206	ELECTRICAL MACHINES - I											
	PO 1	PO2	PO3	PO4	PO5	PO 6	PO7	PO 8	PO9	PO10	PO1 1	PO1 2
C215.1	2	2	1	2	1	1	-	-	1	1	-	1
C215.2	2	2	1	2	1	1	-	-	1	1	-	1
C215.3	3	2	3	2	1	1	-	-	1	1	-	1
C215.4	2	3	3	2	1	1	-	-	1	1	-	1
C215.5	2	3	3	2	1	1	-	-	1	1	-	1
	2.2	2.4	2.2	2	1	1	-	-	1	1	-	1

A13011	ENVIRONMENTAL SCIENCE											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	2	2	1	2	1	2	-	-	1	1	-	1
C216.2	2	2	1	2	1	2	-	-	1	1	-	1
C216.3	3	2	3	2	1	2	-	-	1	1	-	1
C216.4	2	3	3	2	1	2	-	-	1	1	-	1
C216.5	2	3	3	2	1	2	-	-	1	1	-	1
	2.4	2.4	2	2	1	2			1	1		1

A13281	BASIC SIMULATION TOOLS LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C217.1	3	3	3	3	1	3	-	-	2	-	-	-
C217.2	3	3	2	3	1	3	-	-	2	-	-	-
C217.3	2	2	2	2	1	3	-	-	2	-	-	-
C217.4	2	2	2	2	1	2	-	-	2	-	-	-
	2.5	2.5	2.25	2.5	1	2.75			2			



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Department of Electrical & Electronics Engineering

A13282	ELECTRICAL CIRCUITS LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C218.1	3	3	3	3	1	3	-	-	2	-	-	-
C218.2	3	3	2	3	1	3	-	-	2	-	-	-
C218.3	2	2	2	2	1	3	-	-	2	-	-	-
C218.4	2	2	2	2	1	2	-	-	2	-	-	-
	2.5	2.5	2.25	2.5	1	2.75			2			



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A14208	ELECTRICAL MACHINES - II											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C224.1	3	2	1	1	1	-	-	-	-	-	-	1
C224.2	3	2	2	1	1	-	-	-	-	-	-	1
C224.3	3	3	2	2	1	-	-	-	-	-	-	1
C224.4	3	2	2	2	1	-	-	-	-	-	-	1
C224.5	3	2	2	2	1	-	-	-	-	-	-	1
	3	2.25	1.75	1.5	1	-	-	-	-	-	-	1

A14209	POWER SYSTEMS - I											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C225.1	3	3	2		2	-	-	-	-	-	-	-
C225.2	3	3	2		2	-	-	-	-	-	-	-
C225.3	2	3	2		2	-	-	-	-	-	-	-
C225.4	2	3	2		2	-	-	-	-	-	-	-
C225.5	2	3	2		2	-	-	-	-	-	-	-
	2.4	3	2		2	-	-	-	-	-	-	-

A14210	CONTROL SYSTEMS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C226.1	3	2	2	2	2	-	-	-	-	-	1	2
C226.2	3	1	2	2	2	-	-	-	-	-	1	2
C226.3	2	3	2	2	2	-	-	-	-	-	1	2
C226.4	2	2	2	2	1	-	-	-	-	-	1	2
C226.5	2	2	2	2	1	-	-	-	-	-	1	2
	2.4	2	2	2	1.6	-	-	-	-	-	1	2



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A14283	ELECTRICAL MACHINES LAB- I											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C227.1	3	3	2	3	1	1	2	2	3	1	1	1
C227.2	3	3	2	3	1	1	2	2	3	1	1	1
C227.3	3	3	2	3	1	1	2	2	3		1	2
C227.4	3	3	2	3	1	1	2	2	3		1	2
C227.5	3	3	2	3	1	1	2	2	3		1	2
	3	3	2	3	1	1	2	2	3	1	1	1.5

A14484	ELECTRONIC DEVICES & CIRCUITS LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C228.1	3	3	3	3	1	3	-	-	2	-	-	-
C228.2	3	3	2	3	1	3	-	-	2	-	-	-
C228.3	2	2	2	2	1	3	-	-	2	-	-	-
C228.4	2	2	2	2	1	2	-	-	2	-	-	-
C228.5	2	2	2	2	1	2			2			
	2.5	2.5	2.25	2.5	1	2.75	-	-	2	-	-	-

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Department of Electrical & Electronics Engineering

Course	B.TECH
Year - Semester	III Year – I Semester
Regulation	R15

A15017	MANAGERIAL ECONOMICS & FINANCIAL ACCOUNTS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	3		3			1				3		
C311.2					3				2		2	
C311.3												
C311.4		1				3			2			
C311.5		1										
	3	1	3		3	2			2	3	2	

A15212	POWER ELECTRONICS											
		PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	2	3	2	2	1	-	-	-	-	-	1	2
C312.2	3	2	2	2	1	-	-	-	-	-	1	2
C312.3	3	2	2	2	1	-	-	-	-	-	1	2
C312.4	2	2	2	2	1	-	-	-	-	-	1	2
C312.5	2	2	2	2	1	-	-	-	-	-	1	2
	2.5	2.25	2	2	1	-	-	-	-	-	1	2

A15213	POWER SYSTEMS – II											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	3	2	2	2	2	-	-	-	-	-	1	3
C313.2	2	3	2	2	3	-	-	-	-	-	1	3
C313.3	3	3	2	3	3	-	-	-	-	-	1	2
C313.4	3	3	2	3	3	-	-	-	-	-	1	2
C313.5	3	3	2	3	3	-	-	-	-	-	1	2
	2.75	2.75	2	2.5	2.75	-	-	-	-	-	1	2.5

A15214	ELECTRICAL MACHINES -III											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	3	3	2	3	2	-	-	-	-	-	1	2
C314.2	3	3	2	3	2	-	-	-	-	-	1	2
C314.3	2	2	2	3	2	-	-	-	-	-	1	2
C314.4	3	3	2	3	2	-	-	-	-	-	1	2
C314.5	3	3	2	3	2	-	-	-	-	-	1	2
	2.75	2.75	2	3	2	-	-	-	-	-	1	2

A15218	NON CONVENTIONAL ENERGY SOURCES											
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3	3	2	2	3						2	2
C315.2	3	3	2	2	3						2	2
C315.3	3	3	2	2	3						2	2
C315.4	3	3	2	2	3						2	2
C315.5	3	3	2	2	3						2	2
	3	3	2	2	3						2	2

A15215	HIGH VOLTAGE ENGINEERING											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	1	3	3	-	-	-	-	-	-	-	-	-
C316.2	-	-	2	3	-	-	-	-	-	-	-	-
C316.3	-	2	-	3	-	-	-	-	-	-	-	-
C316.4	3	-	-	-	-	-	-	-	-	-	-	-
C316.5	3	2	-	3	-	-	-	-	-	-	-	-
	2	2.5	2.5	3	-	-	-	-	-	-	-	-

A15285	ELECTRICAL MACHINES LAB-II											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	3	3	2	3	2				3	2		3
C317.2	3	3	2	2	2				3	2		3
C317.3	3	3	2	2	2				3	2		3
C317.4	3	3	2	2	2				3	2		3
C317.5	3	3	2	2	2				3	2		3
	3	3	2	2.25	2				3	2		3



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Department of Electrical & Electronics Engineering

A15286	CONTROL SYSTEMS AND SIMULATION LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318.1	3	2	2	2	1				2	1	2	1
C318.2	3	2	2	1	1				1	1	1	-
C318.3	3	3	2	-	-				-	1	1	1
C318.4	3	3	2	2	3				1	1	1	1
C318.5	3	3	2	2	3				1	1	1	1
	3	2.5	2	1.66	1.66				1.33	1	1.25	1

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Department of Electrical & Electronics Engineering

Course	B.TECH
Year - Semester	III Year – II Semester
Regulation	R15

A16421	IC APPLICATIONS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C321.1	3	3	3	3	-	-	-	-	2	-	-	2
C321.2	3	3	3	3	-	-	-	-	2	-	-	2
C321.3	3	3	3	3	-	-	-	-	2	-	-	2
C321.4	3	3	3	3	-	-	-	-	2	-	-	2
C321.5	3	3	3	3	-	-	-	-	2	-	-	2
	3	3	3	3	-	-	-	-	2	-	-	2

A16221	ELECTRICAL MEASUREMENTS AND MEASURING INSTRUMENTS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C322.1	2	2	2	2	3						-	2
C322.2	3	3	2	2	2						-	2
C322.3	3	3	2	2	2						-	2
C322.4	3	3	2	2	2						-	2
C322.5	3	3	2	2	2						-	2
	2	2	2	2	2.25						-	2

A16222	POWER SEMICONDUCTOR DRIVES											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C323.1	3	3	1	2	2						-	2
C323.2	2	3	1	2	2						-	2
C323.3	2	3	1	2	2						-	2
C323.4	3	3	1	2	2						-	2
C323.5	2	3	1	2	2						-	2
	2.5	3	1	2	2						-	2



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Department of Electrical & Electronics Engineering

A16223	SWITCHGEAR & PROTECTION											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C324.1	3	3	2	2	2			-	-	-	-	1
C324.2	2	3	2	2	2			-	-	-	-	2
C324.3	2	3	2	2	2			-	-	-	-	2
C324.4	2	3	2	2	2			-	-	-	-	2
C324.5	2	3	2	2	2			-	-	-	-	1
	2.25	3	2	2	2			-	-	-	-	1.75

A16224	RENEWABLE ENERGY SOURCES											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C327.1	3	3	2	2	3						2	2
C327.2	3	3	2	2	3						2	2
C327.3	3	3	2	2	3						2	2
C327.4	3	3	2	2	3						2	2
C327.5	3	3	2	2	3						2	2
	3	3	2	2	3						2	2

A16287	POWER ELECTRONICS & SIMULATION LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C328.1	1	1	1	1	2	1	1	1	2	1	1	1
C328.2	2	2	2	2	1	1	1	1	2	1	1	1
C328.3	2	2	2	2	1	1	1	1	2	1	1	1
C328.4	1	2	3	3	3	1	1	1	2	1	1	1
C328.5	1	2	1	3	1	1	1	1	2	1	1	1
	1.5	1.75	2	2	1.75	1	1	1	3	1	1	1



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Department of Electrical & Electronics Engineering

A16090	ADVANCED ENGLISH COMMUNICATION SKILLS LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C329.1	3	2	2	2	2		1	1	1	1	2	2
C329.2	3	1	2	2	2		1	1	1	1	2	2
C329.3	2	3	2	2	2		1	1	1	1	2	2
C329.4	2	2	2	2	1		1	1	1	1	2	2
C329.5	2	1	2	2	1		1	1	1	1	2	2
	2.75	2	2	1.5	1.75		1	1	1	1	2	2

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Course	B.TECH
Year – Semester	IV Year – I Semester
Regulation	R15

A17231	COMPUTER METHODS IN POWER SYSTEMS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	3	2	2	2	1	1				1		2
C411.2	3	2	2	3	1	1				1		2
C411.3	3	2	2	3	1	1				1		2
C411.4	3	2	2	3	1	1				1		2
C411.5	3	2	2	3	1	1				1		2
	3	2	2	2.75	1	1				1		2

A17233	ELECTRICAL DISTRIBUTION SYSTEMS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	2	2	2	2	1	1	1	-	1	1	-	2
C412.2	2	2	2	2	1	1	1	-	1	1	-	2
C412.3	3	3	2	2	1	1	1	-	1	1	-	2
C412.4	3	3	2	2	1	1	1	-	1	1	-	2
C412.5	3	3	2	2	1	1	1		1	1		2
	2	2	2	2	1	1	1	-	1	1	-	2

A17230	POWER SYSTEM OPERATION & CONTROL											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	3	3	1	2	2	1	1	-	1	1	1	2
C413.2	3	3	1	2	2	1	1	-	1	1	1	2
C413.3	3	3	1	2	2	1	1	-	1	1	1	2
C413.4	3	3	1	2	2	1	1	-	1	1	1	2
C413.5	3	3	1	2	2	1	1		1	1	1	2
	3	3	1	2	2	1	1	-	1	1	1	2

A17441	MICROPROCESSORS & MICROCONTROLLERS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	3	3	3	3	2	1			1	1		2
C414.2	3	3	3	3	2	1			1	1		2
C414.3	3	3	3	3	2	1			2	1		2
C414.4	3	3	3	3	2	1			2	1		2
C414.5												
	3	3	3	3	2	1			1.5	1		2



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Department of Electrical & Electronics Engineering

A17288	ELECTRICAL MEASUREMENTS LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C416.1	3	3	1	3	2	1	1	3	1	-	1	3
C416.2	3	3	1	1	1	1	1	1	2	-	-	1
C416.3	3	3	1	1	2	2	2	2	1	1	1	2
C416.4	3	3	1	1	3	3	3	2	1	2	1	2
C416.5	3	3	1	1	3	3	3	2	1	2	1	2
	3	3	1	1.5	2	1.75	1.75	2	1.25	1.5	1	2

A17493	MICROPROCESSORS & MICROCONTROLLERS LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C417.1	3	3	3	3	3	1	-	-	2	2	-	3
C417.2	3	3	3	3	3	1	-	-	2	2	-	3
C417.3	3	3	3	3	3	1	-	-	2	2	-	3
C417.4	3	3	3	3	3	1	-	-	2	2	-	3
C417.5	3	3	3	3	3	1			2	2		3
	3	3	3	3	3	1	-	-	2	2	-	3

NBA COORDINATOR

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Department of Electrical & Electronics Engineering

Course	B.TECH
Year - Semester	IV Year – II Semester
Regulation	R15

A18240	UTILIZATION OF ELECTRICAL ENERGY											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C421.1	3	2	2	2	2							1
C421.2	3	2	2	2	2							1
C421.3	3	2	2	2	2							1
C421.4	3	2	2	3	3						1	1
C421.5	3	2	2	3	3						1	1
	3	2	2	2.25	2.25						1	1

A18241	FUNDAMENTALS OF HVDC AND FACTS DEVICES											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C422.1	3	2	2	2	2						2	2
C422.2	3	2	2	2	2						2	2
C422.3	3	2	2	2	2						2	2
C422.4	3	2	2	2	2						2	2
C422.5	3	2	2	2	2						2	2
	3	2	2	2	2						2	2

A18244	EHVAC TRANSMISSION											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C423.1	3	3	1	2	1						-	2
C423.2	2	2	1	2	1						-	2
C423.3	3	2	1	3	1						-	2
C423.4	3	2	1	2	1						-	2
C423.5	3	2	1	2	1						-	2
	2.75	2.25	1	2.25	1						-	2

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Department of Electrical & Electronics Engineering

Course	B.TECH
Year - Semester	II Year – I Semester
Regulation	R15

MATHEMATICS - IV

A13012	PSO1	PSO2
C211.1	1	1
C211.2	1	2
C211.3	2	2
C211.4	2	3
C211.5	3	3
	1.8	2.2

ELECTRONIC DEVICES AND CIRCUITS

A13401	PSO1	PSO2
C212.1	-	-
C212.2	1	-
C212.3	-	-
C212.4	1	-
C212.5	-	-
	1	-

NETWORK THEORY

A13204	PSO1	PSO2
C213.1	1	1
C213.2	1	1
C213.3	1	1
C213.4	1	1
C213.5	1	1
	1	1

ELECTROMAGNETIC FIELDS

A13205	PSO1	PSO2
C214.1	3	3
C214.2	3	3
C214.3	3	3
C214.4	3	3
C214.5	3	3
	3	3



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ELECTRICAL MACHINES – I

A13206	PSO1	PSO2
C215.1	2	2
C215.2	2	2
C215.3	2	2
C215.4	2	2
C215.5	2	2
	2	2

ENVIRONMENTAL SCIENCE

A13011	PSO1	PSO2
C216.1	2	1
C216.2	3	-
C216.3	-	2
C216.4	2	-
C216.5	2	1
	2.3	1.5

BASIC SIMULATION TOOLS LAB

A13281	PSO1	PSO2
C217.1	3	2
C217.2	3	2
C217.3	3	2
C217.4	3	2
C217.5	3	2
	3	2

ELECTRICAL CIRCUITS LAB

A13282	PSO1	PSO2
C218.1	3	2
C218.2	2	2
C218.3	2	2
C218.4	2	2
C218.5	2	2
	2.2	2

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Department of Electrical & Electronics Engineering

Course	B.TECH
Year - Semester	II Year – II Semester
Regulation	R15

ELECTRONIC CIRCUITS

A14407	PSO1	PSO2
C221.1	-	-
C221.2	-	-
C221.3	-	-
C221.4	-	-
C221.5	-	-
	-	-

SWITCHING THEORY AND LOGIC DESIGN

A14408	PSO1	PSO2
C222.1	1	1
C222.2	1	1
C222.3	1	1
C222.4	1	1
C222.5	1	1
	1	1

FLUID MECHANICS AND HYDRAULIC MACHINERY

A14311	PSO1	PSO2
C223.1	-	-
C223.2	-	-
C223.3	-	-
C223.4	-	-
C223.5	-	-
	-	-

ELECTRICAL MACHINES - II

A14208	PSO1	PSO2
C224.1	1	1
C224.2	3	1
C224.3	2	2
C224.4	1	2
C224.5	-	-
	1.75	1.5



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Department of Electrical & Electronics Engineering

POWER SYSTEMS- I

A14209	PSO1	PSO2
C225.1	3	2
C225.2	3	3
C225.3	3	2
C225.4	3	3
C225.5	3	3
	3	2.5

CONTROL SYSTEMS

A14210	PSO1	PSO2
C226.1	3	3
C226.2	2	2
C226.3	3	3
C226.4	2	2
C226.5	2	2
	2.5	2.5

ELECTRICAL MACHINES LAB - I

A14283	PSO1	PSO2
C227.1	3	1
C227.2	3	1
C227.3	3	1
C227.4	3	1
C227.5	3	1
	3	1

ELECTRONIC DEVICES & CIRCUITS LAB

A14484	PSO1	PSO2
C228.1	-	-
C228.2	-	-
C228.3	-	-
C228.4	-	-
C228.5	-	-
	-	-

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Course	B.TECH
Year - Semester	III Year – I Semester
Regulation	R15

MANAGERIAL ECONOMICS & FINANCIAL ACCOUNTS

A15017	PSO1	PSO2
C311.1	-	3
C311.2	-	2
C311.3	-	-
C311.4	-	3
C311.5	-	-
	-	2.66

POWER ELECTRONICS

A15212	PSO1	PSO2
C312.1	2	2
C312.2	2	2
C312.3	2	2
C312.4	2	2
C312.5	2	2
	2	2

POWER SYSTEMS- II

A15213	PSO1	PSO2
C313.1	1	3
C313.2	1	3
C313.3	1	3
C313.4	1	3
C313.5	1	3
	1	3

ELECTRICAL MACHINES - III

A15214	PSO1	PSO2
C314.1	3	3
C314.2	3	3
C314.3	3	3
C314.4	3	3
C314.5	3	3
	3	3



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NON CONVENTIONAL ENERGY SOURCES

A15218	PSO1	PSO2
C315.1	3	3
C315.2	3	3
C315.3	3	3
C315.4	3	3
C315.5	3	3
	3	3

HIGH VOLTAGE ENGINEERING

A15215	PSO1	PSO2
C316.1	-	-
C316.2	-	-
C316.3	-	-
C316.4	-	-
C316.5	-	-
	-	-

ELECTRICAL MACHINES LAB - II

A15285	PSO1	PSO2
C317.1	3	3
C317.2	3	3
C317.3	3	3
C317.4	3	3
C317.5	3	3
	3	3

CONTROL SYSTEMS AND SIMULATIONLAB

A15286	PSO1	PSO2
C318.1	2	1
C318.2	3	1
C318.3	1	1
C318.4	2	1
C318.5	2	1
	2	1

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Course	B.TECH
Year - Semester	III Year – II Semester
Regulation	R15

IC APPLICATIONS

A16421	PSO1	PSO2
C321.1	1	1
C321.2	1	1
C321.3	1	1
C321.4	1	1
C321.5	1	1
	1	1

ELECTRICAL MEASUREMENTS AND MEASURING INSTRUMENTS

A16221	PSO1	PSO2
C322.1	3	3
C322.2	3	3
C322.3	3	3
C322.4	3	3
C322.5	3	3
	3	3

POWER SEMICONDUCTOR DRIVES

A16222	PSO1	PSO2
C323.1	2	3
C323.2	2	3
C323.3	2	3
C323.4	2	3
C323.5	2	2
	2	3

SWITCH GEAR AND PROTECTION

A16223	PSO1	PSO2
C324.1	2	2
C324.2	2	2
C324.3	2	2
C324.4	2	2
C324.5	2	2
	2	2



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RENEWABLE ENERGY SOURCES		
A16224	PSO1	PSO2
C327.1	3	3
C327.2	3	3
C327.3	3	3
C327.4	3	3
C327.5	3	3
	3	3

POWER ELECTRONICS AND SIMULATION LAB		
A16287	PSO1	PSO2
C328.1	1	1
C328.2	1	1
C328.3	1	1
C328.4	1	1
C328.5	1	1
	1	1

ADVANCED ENGLISH COMMUNICATION SKILLS LAB		
A16090	PSO1	PSO2
C329.1	3	3
C329.2	2	2
C329.3	3	3
C329.4	2	2
C329.5	2	2
	2.25	1.5

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Department of Electrical & Electronics Engineering

Course	B.TECH
Year - Semester	IVYear – I Semester
Regulation	R15

COMPUTER METHODS IN POWER SYSTEMS

A17231	PSO1	PSO2
C411.1	2	3
C411.2	2	3
C411.3	3	3
C411.4	3	3
C411.5	3	3
	2.5	3

ELECTRICAL DISTRIBUTION SYSTEMS

A17233	PSO1	PSO2
C412.1	1	3
C412.2	1	3
C412.3	1	3
C412.4	1	3
C412.5	1	3
	1	3

POWER SYSTEM OPERATION AND CONTROL

A17230	PSO1	PSO2
C413.1	3	3
C413.2	3	3
C413.3	3	3
C413.4	3	3
C413.5	3	3
	3	3

MICROPROCESSORS AND MICROCONTROLLERS

A17441	PSO1	PSO2
C414.1	1	1
C414.2	1	1
C414.3	1	1
C414.4	1	1
C414.5	1	1
	1	1



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Department of Electrical & Electronics Engineering

ELECTRICAL MEASUREMENTS LAB

A17288	PSO1	PSO2
C416.1	3	2
C416.2	3	2
C416.3	3	1
C416.4	3	1
C416.5	3	1
	3	1.5

MICROPROCESSORS AND MICROCONTROLLERS LAB

A17493	PSO1	PSO2
C417.1	1	1
C417.2	1	1
C417.3	1	1
C417.4	1	1
C417.5	1	1
	1	1

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Department of Electrical & Electronics Engineering

Course	B.TECH
Year - Semester	IV Year – II Semester
Regulation	R15

UTILIZATION OF ELECTRICAL ENERGY

A18240	PSO1	PSO2
C421.1	2	2
C421.2	2	2
C421.3	2	2
C421.4	2	2
C421.5	2	2
	2	2

FUNDAMENTALS OF HVDC & FACTS DEVICES

A18241	PSO1	PSO2
C422.1	2	2
C422.2	2	2
C422.3	2	2
C422.4	2	2
C422.5	2	2
	2	2

EHV AC TRANSMISSION

A18244	PSO1	PSO2
C423.1	-	3
C423.2	-	3
C423.3	2	3
C423.4	2	3
C423.5	-	3
	2	3

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

R18 – CO-PO MAPPINGS

II-B.TECH I SEM

A23203	POWER SYSTEMS - I											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	3	3	2		2	-	-	-	-	-	-	-
C213.2	3	3	2		2	-	-	-	-	-	-	-
C213.3	2	3	2		2	-	-	-	-	-	-	-
C213.4	2	3	2		2	-	-	-	-	-	-	-
C213.5	2	3	2		2	-	-	-	-	-	-	-
	2.4	3	2		2	-	-	-	-	-	-	-

A23204	NETWORK THEORY											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3	3	3	2	1	1	1	-	1	-	-	2
C214.2	3	3	1	2	1	2	1	-	1	-	-	1
C214.3	3	1	1	2	1	2	1	-	1	-	-	1
C214.4	3	3	3	2	1	2	1	-	1	-	-	1
C214.5	3	3	3	2	1	2	1	-	1	-	-	1
	3	6	2.2	2	1	1.8	1	-	1	-	-	1.2

A23205	ELECTROMAGNETIC FIELDS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	3	3	2	3	2	2	2	1	1	1	1	1
C215.2	3	3	2	3	1	1	3	1	1	1	1	1
C215.3	3	3	3	3	1	1	2	1	1	1	1	1
C215.4	3	3	3	3	1	1	2	1	1	1	1	1
C215.5	3	3	3	3	1	1	2	1	1	1	1	1
	3	3	2.6	3	1.2	1.2	2.2	1	1	1	1	1



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A23206	ELECTRICAL MACHINES - I											
	PO 1	PO2	PO3	PO4	PO5	PO 6	PO7	PO 8	PO9	PO10	PO1 1	PO1 2
C216.1	2	2	1	2	1	1	-	-	1	1	-	1
C216.2	2	2	1	2	1	1	-	-	1	1	-	1
C216.3	3	2	3	2	1	1	-	-	1	1	-	1
C216.4	2	3	3	2	1	1	-	-	1	1	-	1
C216.5	2	3	3	2	1	1	-	-	1	1	-	1
	2.2	2.4	2.2	2	1	1	-	-	1	1	-	1

A23283	BASIC SIMULATION TOOLS LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C217.1	3	3	3	3	1	3	-	-	2	-	-	-
C217.2	3	3	2	3	1	3	-	-	2	-	-	-
C217.3	2	2	2	2	1	3	-	-	2	-	-	-
C217.4	2	2	2	2	1	2	-	-	2	-	-	-
C217.5	2	2	2	2	1	2	-	-	2	-	-	-
	2.5	2.5	2.25	2.5	1	2.75			2			

A23284	ELECTRICAL CIRCUITS LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C218.1	3	3	3	3	1	3	-	-	2	-	-	-
C218.2	3	3	2	3	1	3	-	-	2	-	-	-
C218.3	2	2	2	2	1	3	-	-	2	-	-	-
C218.4	2	2	2	2	1	2	-	-	2	-	-	-
C218.5	2	2	2	2	1	2	-	-	2	-	-	-
	2.5	2.5	2.25	2.5	1	2.75			2			



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II-B.TECH II SEM

A24208	ELECTRICAL MACHINES - II											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C224.1	3	2	1	1	1	-	-	-	-	-	-	1
C224.2	3	2	2	1	1	-	-	-	-	-	-	1
C224.3	3	3	2	2	1	-	-	-	-	-	-	1
C224.4	3	2	2	2	1	-	-	-	-	-	-	1
C224.5	3	2	2	2	1	-	-	-	-	-	-	1
	3	2.25	1.75	1.5	1	-	-	-	-	-	-	1

A24209	POWER SYSTEMS – II											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C225.1	3	2	2	2	2	-	-	-	-	-	1	3
C225.2	2	3	2	2	3	-	-	-	-	-	1	3
C225.3	3	3	2	3	3	-	-	-	-	-	1	2
C225.4	3	3	2	3	3	-	-	-	-	-	1	2
C225.5	3	3	2	3	3	-	-	-	-	-	1	2
	2.75	2.75	2	2.5	2.75	-	-	-	-	-	1	2.5

A24210	CONTROL SYSTEMS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C226.1	3	2	2	2	2	-	-	-	-	-	1	2
C226.2	3	1	2	2	2	-	-	-	-	-	1	2
C226.3	2	3	2	2	2	-	-	-	-	-	1	2
C226.4	2	2	2	2	1	-	-	-	-	-	1	2
C226.5	2	2	2	2	1	-	-	-	-	-	1	2
	2.4	2	2	2	1.6	-	-	-	-	-	1	2



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A24285	ELECTRICAL MACHINES LAB- I											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C227.1	3	3	2	3	1	1	2	2	3	1	1	1
C227.2	3	3	2	3	1	1	2	2	3	1	1	1
C227.3	3	3	2	3	1	1	2	2	3	-	1	2
C227.4	3	3	2	3	1	1	2	2	3	-	1	2
C227.5	3	3	2	3	1	1	2	2	3	-	1	2
	3	3	2	3	1	1	2	2	3	1	1	1.5



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III-B.TECH I SEM

A25212	ELECTRICAL MACHINES -III											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	3	3	2	3	2	-	-	-	-	-	1	2
C313.2	3	3	2	3	2	-	-	-	-	-	1	2
C313.3	2	2	2	3	2	-	-	-	-	-	1	2
C313.4	3	3	2	3	2	-	-	-	-	-	1	2
C313.5	3	3	2	3	2	-	-	-	-	-	1	2
	2.75	2.75	2	3	2	-	-	-	-	-	1	2

A25213	POWER ELECTRONICS											
		PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	2	3	2	2	1	-	-	-	-	-	1	2
C314.2	3	2	2	2	1	-	-	-	-	-	1	2
C314.3	3	2	2	2	1	-	-	-	-	-	1	2
C314.4	2	2	2	2	1	-	-	-	-	-	1	2
C314.5	2	2	2	2	1	-	-	-	-	-	1	2
	2.5	2.25	2	2	1	-	-	-	-	-	1	2

A25214	ELECTRICAL ENERGY CONSERVATION AND AUDITING											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	2	2	2									
C315.2	2	2		1	1							
C315.3	2	2	2	1	1							
C315.4	2	2	2		1							
C315.5	2	2	2	1	1							
	2	2	2	1	1							



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A25215	ELECTRICAL ESTIMATION AND COSTING											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	3	2	2	2	2	-	-	-	-	-	1	2
C316.2	3	1	2	2	2	-	-	-	-	-	1	2
C316.3	2	3	2	2	2	-	-	-	-	-	1	2
C316.4	2	2	2	2	1	-	-	-	-	-	1	2
C316.5	2	2	2	2	1	-	-	-	-	-	1	2
	2.4	2	2	2	1.6	-	-	-	-	-	1	2

A25287	ELECTRICAL MACHINES LAB-II											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C319.1	3	3	2	3	2				3	2		3
C319.2	3	3	2	2	2				3	2		3
C319.3	3	3	2	2	2				3	2		3
C319.4	3	3	2	2	2				3	2		3
C319.5	3	3	2	2	2				3	2		3
	3	3	2	2.25	2				3	2		3



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A26222	SWITCHGEAR & PROTECTION											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C324.1	3	3	2	2	2			-	-	-	-	1
C324.2	2	3	2	2	2			-	-	-	-	2
C324.3	2	3	2	2	2			-	-	-	-	2
C324.4	2	3	2	2	2			-	-	-	-	2
C324.5	2	3	2	2	2			-	-	-	-	1
	2.25	3	2	2	2			-	-	-	-	1.75

A26224	ARTIFICIAL INTELLIGENCE TECHNIQUES IN ELECTRICAL ENGINEERING											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C326.1	3	2	2	2	1	1				1		2
C326.2	3	2	2	3	1	1				1		2
C326.3	3	2	2	3	1	1				1		2
C326.4	3	2	2	3	1	1				1		2
C326.5	3	2	2	3	1	1				1		2
	3	2	2	2.75	1	1				1		2

A26288	CONTROL SYSTEMS AND SIMULATION LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C329.1	3	2	2	2	1				2	1	2	1
C329.2	3	2	2	1	1				1	1	1	-
C329.3	3	3	2	-	-				-	1	1	1
C329.4	3	3	2	2	3				1	1	1	1
C329.5	3	3	2	2	3				1	1	1	1
	3	2.5	2	1.66	1.66				1.33	1	1.25	1



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A26289	POWER ELECTRONICS & SIMULATION LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C3210.1	1	1	1	1	2	1	1	1	2	1	1	1
C3210.2	2	2	2	2	1	1	1	1	2	1	1	1
C3210.3	2	2	2	2	1	1	1	1	2	1	1	1
C3210.4	1	2	3	3	3	1	1	1	2	1	1	1
C3210.5	1	2	1	3	1	1	1	1	2	1	1	1
	1.5	1.75	2	2	1.75	1	1	1	3	1	1	1



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IV-B.TECH I SEM

A27227	POWER SYSTEM OPERATION & CONTROL											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	3	3	1	2	2	1	1	-	1	1	1	2
C412.2	3	3	1	2	2	1	1	-	1	1	1	2
C412.3	3	3	1	2	2	1	1	-	1	1	1	2
C412.4	3	3	1	2	2	1	1	-	1	1	1	2
C412.5	3	3	1	2	2	1	1		1	1	1	2
	3	3	1	2	2	1	1	-	1	1	1	2

A27228	ELECTRIC VEHICLES											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	3	2	2	2	1				2	1	2	1
C413.2	3	2	2	1	1				1	1	1	-
C413.3	3	3	2	-	-				-	1	1	1
C413.4	3	3	2	2	3				1	1	1	1
C413.5	3	3	2	2	3				1	1	1	1
	3	2.5	2	1.66	1.66				1.33	1	1.25	1

A27229	SMART GRIDS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	3	3	2	2	2			-	-	-	-	1
C414.2	2	3	2	2	2			-	-	-	-	2
C414.3	2	3	2	2	2			-	-	-	-	2
C414.4	2	3	2	2	2			-	-	-	-	2
C414.5	2	3	2	2	2			-	-	-	-	1
	2.25	3	2	2	2			-	-	-	-	1.75



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A27230	ELECTRICAL DISTRIBUTION SYSTEMS											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C415.1	2	2	2	2	1	1	1	-	1	1	-	2
C415.2	2	2	2	2	1	1	1	-	1	1	-	2
C415.3	3	3	2	2	1	1	1	-	1	1	-	2
C415.4	3	3	2	2	1	1	1	-	1	1	-	2
C415.5	3	3	2	2	1	1	1		1	1		2
	2	2	2	2	1	1	1	-	1	1	-	2

A27290	ELECTRICAL MEASUREMENTS LAB											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C4110.1	3	3	1	3	2	1	1	3	1	-	1	3
C4110.2	3	3	1	1	1	1	1	1	2	-	-	1
C4110.3	3	3	1	1	2	2	2	2	1	1	1	2
C4110.4	3	3	1	1	3	3	3	2	1	2	1	2
C4110.5	3	3	1	1	3	3	3	2	1	2	1	2
	3	3	1	1.5	2	1.75	1.75	2	1.25	1.5	1	2

A272P1	MINI PROJECT											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C4111.1	2	2	-	1	-	1	1	1	1	1	-	-
C4111.2	2	2	2	3	3	-	1	1	3	2	2	2
C4111.3	-	-	-	-	1	1	-	1	3	2	1	-
C4111.4	-	2	-	1	1	-	-	-	-	2	-	1
C4111.5	-	2	-	1	1	-	-	-	-	2	-	1
	2	2	2	1.66	1.66	1	1	1	2.33	1.75	1.5	1.5



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IV-B.TECH II SEM

A28234	UTILIZATION OF ELECTRICAL ENERGY											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C421.1	3	2	2	2	2							1
C421.2	3	2	2	2	2							1
C421.3	3	2	2	2	2							1
C421.4	3	2	2	3	3						1	1
C421.5	3	2	2	3	3						1	1
	3	2	2	2.25	2.25						1	1

A28235	RENEWABLE ENERGY AND ENERGY STORAGE TECHNOLOGIES											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C422.1	3	2	2	2	2							1
C422.2	3	2	2	2	2							1
C422.3	3	2	2	2	2							1
C422.4	3	2	2	3	3						1	1
C422.5	3	2	2	3	3						1	1
	3	2	2	2.25	2.25						1	1

A282TS	TECHNICAL SEMINAR											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C423.1	3	3	3	3	-	-	-	-	1	-	-	2
C423.2	3	3	3	3	-	-	-	-	1	-	-	2
C423.3	3	3	3	3	2	-	-	-	1	-	-	2
C423.4	3	3	3	3	-	-	-	-	1	3	-	2
C423.5	3	3	3	3	-	-	-	-	1	3	-	2
	3	3	3	3	2	-	-	-	1	3	-	2



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A282CV	COMPREHENSIVE VIVA-VOICE											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C424.1	2	2	2	2	2	2	2	-	1	-	1	1
C424.2	2	2	2	2	2	2	2	-	1	-	1	1
C424.3	1	1	1	-	-	-	1	-	-	-	-	1
C424.4	1	1	1	1	-	-	-	-	-	-	-	1
C424.5	1	1	1	1	-	-	-	-	-	-	-	1
	1.5	1.5	1.5	1.66	2	2	1.66	-	-	-	1	1

A282P2	MAJORPROJECT											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C425.1	2	2	-	1	-	1	1	1	1	1	-	-
C425.2	2	2	2	3	3	-	1	1	3	2	2	2
C425.3	-	-	-	-	1	1	-	1	3	2	1	-
C425.4	-	2	-	1	1	-	-	-	-	2	-	1
C425.5	-	2	-	1	1	-	-	-	-	2	-	1
	2	2	2	1.66	1.66	1	1	1	2.33	1.75	1.5	1.5



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

R18 – CO-PSO MAPPINGS

II-B.TECH I SEM

POWER SYSTEMS- I		
A23203	PSO1	PSO2
C213.1	3	2
C213.2	3	3
C213.3	3	2
C213.4	3	3
C213.5	3	3
	3	2.5

NETWORK THEORY		
A23204	PSO1	PSO2
C214.1	1	1
C214.2	1	1
C214.3	1	1
C214.4	1	1
C214.5	1	1
	1	1

ELECTROMAGNETIC FIELDS		
A23205	PSO1	PSO2
C215.1	3	3
C215.2	3	3
C215.3	3	3
C215.4	3	3
C215.5	3	3
	3	3

ELECTRICAL MACHINES – I		
A23206	PSO1	PSO2
C216.1	2	2
C216.2	2	2
C216.3	2	2
C216.4	2	2
C216.5	2	2



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	2	2
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BASIC SIMULATION TOOLS LAB		
A23283	PSO1	PSO2
C217.1	3	2
C217.2	3	2
C217.3	3	2
C217.4	3	2
C217.5	3	2
	3	2

ELECTRICAL CIRCUITS LAB		
A23284	PSO1	PSO2
C218.1	3	2
C218.2	2	2
C218.3	2	2
C218.4	2	2
C218.5	2	2
	2.2	2



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II-B.TECH II SEM

ELECTRICAL MACHINES - II		
A24208	PSO1	PSO2
C224.1	1	1
C224.2	3	1
C224.3	2	2
C224.4	1	2
C224.5	-	-
	1.75	1.5

POWER SYSTEMS- II		
A24209	PSO1	PSO2
C225.1	1	3
C225.2	1	3
C225.3	1	3
C225.4	1	3
C225.5	1	3
	1	3

CONTROL SYSTEMS		
A24210	PSO1	PSO2
C226.1	3	3
C226.2	2	2
C226.3	3	3
C226.4	2	2
C226.5	2	2
	2.5	2.5

ELECTRICAL MACHINES LAB - I		
A24285	PSO1	PSO2
C227.1	3	1
C227.2	3	1
C227.3	3	1
C227.4	3	1
C227.5	3	1
	3	1



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III-B.TECH I SEM

ELECTRICAL MACHINES - III		
A25212	PSO1	PSO2
C313.1	3	3
C313.2	3	3
C313.3	3	3
C313.4	3	3
C313.5	3	3
	3	3

POWER ELECTRONICS		
A25213	PSO1	PSO2
C314.1	2	2
C314.2	2	2
C314.3	2	2
C314.4	2	2
C314.5	2	2
	2	2

ELECTRICAL ENERGY CONSERVATION AND AUDITING		
A25214	PSO1	PSO2
C315.1	3	3
C315.2	3	3
C315.3	3	3
C315.4	3	3
C315.5	3	3
	3	3



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ELECTRICAL ESTIMATION AND COSTING		
A25215	PSO1	PSO2
C316.1	-	3
C316.2	-	3
C316.3	2	3
C316.4	2	3
C316.5	-	3
	2	3

ELECTRICAL MACHINES LAB - II		
A25287	PSO1	PSO2
C319.1	3	3
C319.2	3	3
C319.3	3	3
C319.4	3	3
C319.5	3	3
	3	3



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III-B.TECH II SEM

ELECTRICAL MEASUREMENTS AND MEASURING INSTRUMENTS		
A26219	PSO1	PSO2
C321.1	3	3
C321.2	3	3
C321.3	3	3
C321.4	3	3
C231.5	3	3
	3	3

COMPUTER METHODS IN POWER SYSTEMS		
A26220	PSO1	PSO2
C322.1	2	3
C322.2	2	3
C322.3	3	3
C322.4	3	3
C322.5	3	3
	2.5	3

POWER SEMICONDUCTOR DRIVES		
A26221	PSO1	PSO2
C323.1	2	3
C323.2	2	3
C323.3	2	3
C323.4	2	3
C323.5	2	2
	2	3

SWITCH GEAR AND PROTECTION		
A26222	PSO1	PSO2
C324.1	2	2
C324.2	2	2
C324.3	2	2
C324.4	2	2
C324.5	2	2
	2	2



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ARTIFICIAL INTELLIGENCE TECHNIQUES IN ELECTRICAL ENGINEERING

A26224	PSO1	PSO2
C326.1	3	3
C326.2	2	2
C326.3	3	3
C326.4	2	2
C236.5	2	2
	2.25	1.5

CONTROL SYSTEMS AND SIMULATION LAB

A26288	PSO1	PSO2
C329.1	2	1
C329.2	3	1
C329.3	1	1
C329.4	2	1
C329.5	2	1
	2	1

POWER ELECTRONICS AND SIMULATION LAB

A26289	PSO1	PSO2
C3210.1	1	1
C3210.2	1	1
C3210.3	1	1
C3210.4	1	1
C2310.5	1	1
	1	1



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IV-B.TECH I SEM

POWER SYSTEM OPERATION AND CONTROL		
A27227	PSO1	PSO2
C412.1	3	3
C412.2	3	3
C412.3	3	3
C412.4	3	3
C412.5	3	3
	3	3

ELECTRIC VEHICLES		
A27228	PSO1	PSO2
C413.1	1	1
C413.2	1	1
C413.3	1	1
C413.4	1	1
C413.5	1	1
	1	1

SMART GRIDS		
A27229	PSO1	PSO2
C414.1	2	3
C414.2	2	3
C414.3	3	3
C414.4	3	3
C414.5	3	3
	2.5	3

ELECTRICAL DISTRIBUTION SYSTEMS		
A27230	PSO1	PSO2
C415.1	1	3
C415.2	1	3
C415.3	1	3
C415.4	1	3
C415.5	1	3



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	1	3
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ELECTRICAL MEASUREMENTS LAB		
A27290	PSO1	PSO2
C4110.1	3	2
C4110.2	3	2
C4110.3	3	1
C4110.4	3	1
C4110.5	3	1
	3	1.5

MINI PROJECT		
A272P1	PSO1	PSO2
C4111.1	1	1
C4111.2	1	1
C4111.3	1	1
C4111.4	1	1
C4111.5	1	1
	1	1



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IV-B.TECH II SEM

UTILIZATION OF ELECTRICAL ENERGY		
A28234	PSO1	PSO2
C421.1	2	2
C421.2	2	2
C421.3	2	2
C421.4	2	2
C421.5	2	2
	2	2

RENEWABLE ENERGY AND ENERGY STORAGE TECHNOLOGIES		
A28235	PSO1	PSO2
C422.1	3	3
C422.2	3	3
C422.3	3	3
C422.4	3	3
C422.5	3	3
	3	3

TECHNICAL SEMINAR		
A282TS	PSO1	PSO2
C423.1	3	3
C423.2	3	3
C423.3	3	3
C423.4	3	3
C423.5	3	3
	3	3

COMPREHENSIVE VIVA-VOICE		
A282CV	PSO1	PSO2
C424.1	2	3
C424.2	2	3
C424.3	2	3
C424.4	2	3
C424.5	2	2
	2	3



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MAJORPROJECT		
A282P2	PSO1	PSO2
C425.1	2	2
C425.2	2	2
C425.3	2	2
C425.4	2	2
C425.5	2	2
	2	2