

"CELEBRATING DREAMS"

THEMATIC DISTRIBUTION OF SUBJECTS DEPT. OF ELECTRICAL ENGINEERING

Theme	Subjects
Fundamental Engineering and	1. Calculus for Engineers
Mathematics	2. Engineering Graphics
	3. Engineering Mathematics
	4. Statistics for Engineers
Core Electrical and Electronics Subjects	1. Basic Electronics
	2. Principles of Electrical Engineering
	3. Circuit Theory and Networks
	4. Electrical Machines I & II
	5. Digital Electronics and Logic Design
	6. Electrical & Electronic Materials
Electric Vehicle Technology	1. Introduction to Electric Vehicle Technology
	2. Architecture of Electric Vehicles & Solar
	Panels
	3. Energy Storage Systems for Electric Vehicles
	4. Electric and Hybrid Vehicles
	5. Electric Vehicles Control
	6. Vehicle Dynamics
Advanced Electrical Topics	1. Power Generation, Transmission, and
	Distribution
	2. Power System Stability
	3. Power System Protection
	4. High Voltage Engineering
	5. Power Electronics
Computer Programming and	1. Essentials of Information Technology
Simulation	2. Programming Logics
	3. Object-Oriented Programming by Java
	 Computer Programming (Python)
	5. Electrical Engineering Simulation Labs I & II
Elective Courses	 Elective 1 (Signal & Systems, Special Electrical Machines, Computer-Aided Protection)
	 Elective 2 (Power Quality, Advanced Power System Protection, Energy Management & Audit)



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	 Elective 3 (IoT and Sensors, Soft Computing Techniques, Machine Learning) Elective 4 (Generalized Theory of Electrical Machines, Industrial Instrumentation) Elective 5 (HVDC, Smart Grid and Energy Management, EHV AC & DC Transmission)
Industrial Training and Projects	 Industrial Training I, II, and III Major Project I and II Mini Project
Communication and Interdisciplinary Subjects	 Communication Skills & Colloquium Environmental Pollution & Global Issues Making of Modern India