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DEPARTMENT OF ELECTRICAL ENGINEERING
BTECH 7TH SEMESTER
LEARNING MANAGEMENT SYSTEM (LMS)

S.N	NAME OF SUBJECT	CO'S	NOTES
1.	***High Voltage Engineering (BTEEC701)***	*CO1: Develop of high voltage equipments and utility establishment*	UNIT 1
		CO2: Classify the breakdown strength of gas, liquids and solids insulation systems	UNIT 2
		CO3: Evaluate the form of discharges in Gaseous, Liquid and Solid dielectrics.	UNIT 3
		CO4: Explain the knowledge to test the power apparatus and insulation coordination	UNIT 4
		CO5: Identify generation and measurement of high voltage.	UNIT 5
		CO6: Analyze the magnitude of HVDC, HVAC (power frequency & high frequency) and impulse by different measurement schemes.	UNIT 6
2.	***Power System Operation & Control (BTEEC702)***	*CO1: Understand the concept of reactive power compensation and apply it to Power System.*	UNIT 1
		CO2: Compute various types of Power Stability Problems and classify various methods to overcome them.	UNIT 2
		CO3: Classify various Excitation systems and analyze various parameters of Power System.	UNIT 3
		CO4: Compare various types of load frequency control methods.	UNIT 4
		CO5: Discuss Economic Operation of Power System and compute various parameters.	UNIT 5
3.	***Application of Power Electronics in Power System (BTEEPE703C)***	*CO1: Understand Basics of power transmission network, power generation, power transmission, power quality and active power filters.*	UNIT 1
		CO2: Applying various types of FACTS Controller and compensator in power transmission network.	UNIT 2
		CO3: Understand the modeling and analysis of different types of FACTS Controller.	UNIT 3
		CO4: Understand the concept of harmonics, Mitigation of harmonics, active and passive filters.	UNIT 4
		CO5: Understand the concept of different types of filters and mitigation of power quality problem.	UNIT 5
4.	***Mechatronics (BTEEOE704C)***	*CO1:understand the mechatronic systems design and their structure, ergonomic and safety*	UNIT 1
		CO2: Understand the concept of measurement technology and study about characteristics of transducers.	UNIT 2
		CO3: Illustrate various types of actuation systems and their components.	UNIT 3
		CO4: Summarize the construction and working of closed loop controllers, Micro processor and Micro controllers	UNIT 4
		CO5: Understand the fundamental of signal conditioning, data acquisition and communication system used in mechatronics.	UNIT 5
5.	***Testing, Maintenance and Commissioning of Electrical Equipment (BTEEOE705A)***	*CO1: Recognize the concept of Maintenance & different Maintenance strategies*	UNIT 1
		CO2: Understand the planned & preventive Maintenance of Induction Motor	UNIT 2
		CO3: Evaluate different condition Monitoring techniques of Induction Motor	UNIT 3
		CO4: Compare different routine test & special test for transformer	UNIT 4
		CO5: Evaluate different types of Earthing System	UNIT 5