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DEPARTMENT OF ELECTRICAL ENGINEERING
BTECH 5TH SEMESTER
LEARNING MANAGEMENT SYSTEM (LMS)

S.N	NAME OF SUBJECT	CO'S	NOTES
1.	***POWER SYSTEM ANALYSIS (BTEEC501)***	*CO1: Apply the concept of Complex Power & Per Unit System to analyze transmission line parameters*	**UNIT 1**
		CO2: Utilize the concept of network model formulations for load flow analysis.	**UNIT 2**
		CO3: Illustrate the concept of transients on transmission line and analyze the short circuit of Synchronous machine.	**UNIT 3**
		CO4: Apply the concept of symmetrical component analysis to find various types of faults in transmission line.	**UNIT 4**
		CO5: Classify various types of faults in transmission line.	**UNIT 5**
		CO6: Illustrate the basic concept of Security Analysis in Transmission Line	**UNIT 6**
2.	***MICROPROCESSOR & MICROCONTROLLER (BTEEC502)***	*CO1: Understand the internal organization of 8085,classify the instruction set, addressing modes, timing diagram, concept of interrupts*	**UNIT 1**
		CO2: Demonstrate and analyze the concept of data transfer technique and interfacing with RAM, ROM their implementation and apply different mapping scheme.	**UNIT 2**
		CO3: Understand the Interface of 8085 and 8051 and apply it with ADC/DAC, Wave generator, Stepper motor, Traffic Light controller etc.	**UNIT 3**
		CO4: Describe internal organization of 8051,addressing modes, timing diagram, concept of interrupts	**UNIT 4**
		CO5: Understand the concept of microcontroller and apply knowledge for assembly language Programme, for peripheral devices, interfacing with various hardware.	**UNIT 5**
3.	***POWER ELECTRONICS (BTEEC503)***	*CO1: Understand the characteristics of power semiconductor devices and identify suitable switch choices for a given application*	**UNIT 1**
		CO2: Apply the concept of AC /DC Rectifier to design various circuits	**UNIT 2**
		CO3: Interpret the electronics elements concept in basic chopper circuits	**UNIT 3**
		CO4: Classify DC/AC Inverter circuit & apply the concept to design various circuits	**UNIT 4**
		CO5: Extend the knowledge of voltage control in inveters to analyse various parameters	**UNIT 5**
4.	***HVDC (BTEEPE504)***	*CO1: Relate HVDC Technology to AC Transmission with analyzing their functions, configurations and types of system.*	**UNIT 1**
		CO2: Understand converter operation, circuit representations and their control characteristics.	**UNIT 2**
		CO3: Memorize basic HVDC controllers in terms of faults, commutation failures, oscillations	**UNIT 3**
		CO4: Remember various harmonic characteristics in HVDC	**UNIT 4**
		CO5: Connect component model of AC DC system by power flow analysis	**UNIT 5**
5.	***ELECTRICAL SAFETY (BTEEOE505)***	*CO1: Understand the concept of primary and secondary hazards arc.*	**UNIT 1**
		CO2: Explain the general requirements for grounding and bonding equipment.	**UNIT 2**
		CO3: Illustrate the concept of electrical safety programmer structure like safety policy programme implementation.	**UNIT 3**
		CO4: Illustrate the concept of safety related case for electrical maintenance.	**UNIT 4**
		CO5: Classify the various type of regulatory bodies	**UNIT 5**