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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

BTECH 5TH SEMESTER

LEARNING MANAGMENT SYSTEM (LMS)

S.N.	NAME OF SUBJECT	CO'S	NOTES LINK
1	ELECTROMAGNETIC FIELD (BTETC501)	**CO1:** Illustrate the physical concepts of static electric fields.	UNIT NO.1
		CO2: Describe the physical concepts of static magnetic fields.	UNIT NO.2
		CO3: To understand the boundary conditions for different materials/surfaces.	UNIT NO.3
		CO4: Use sections of transmission line sections for realizing circuit element.	UNIT NO.4
		CO5: Acquainted with different physical laws and theorems and provide basic platform for upcoming communication technologies.	UNIT NO.5
2	DIGITAL SIGNAL PROCESSING (BTETC502)	**CO1:** Explain the fundamentals of Digital Signal Processing (DSP) and its advantages over analog processing.	UNIT NO.1
		CO2: Analyze the concept of frequency domain representation of discrete-time signals	UNIT NO.2
		CO3: Apply the Z-transform to solve difference equations in DSP systems.	UNIT NO.3
		CO4:*Design* IIR filters using impulse invariance and bilinear transformation methods.	UNIT NO.4
		CO5: Evaluate FIR filter characteristics using windowing techniques and frequency sampling methods.	UNIT NO.5
3	ANALOG COMMUNICATION (BTETC503)	**CO1:Understand** and identify the fundamental concepts and various components of analog communication systems	UNIT NO.1
		CO2:Understand the concepts of modulation and demodulation techniques	UNIT NO.2
		CO3:Understand the concepts of modulation and demodulation techniques of angle modulation (frequency and phase).	UNIT NO.3

		CO4:Equip students with various issues related to analog communication such as modulation, demodulation, transmitters and receivers	UNIT NO.4
		CO5:Explain signal to noise ratio, noise figure and noise temperature	UNIT NO.5
4	ANALOG CIRCUIT (BTETPE504)	**CO1:Understand** the internal operation of Op-Amp and its specifications.	UNIT NO.1
		CO2:Analyze and design linear applications like adder, subs tractor, instrumentation amplifier and etc. using Op-Amp.	UNIT NO.2
		CO3:Analyze and design non linear applications like clippers and clampers and comparator, precision rectifiers etc. using Op-Amp.	UNIT NO.3
		CO4:Classify the Oscillators and design various oscillators' circuit by using op-amp.	UNIT NO.4
		CO5:Explain& design the applications of DAC, ADC and V- I Converter using OP – AMPS.	UNIT NO.5
5	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (BTETPE505)	**CO1: Understand** the fundamental concepts of Artificial Intelligence.	UNIT NO.1
		CO2: Apply techniques to solve the AI problems.	UNIT NO.2
		CO3: Analyze and apply decision-making strategies in game theory.	UNIT NO.3
		CO4: Design and implement knowledge-based agents using logic and inference techniques.	UNIT NO.4
		CO5: To **understand**, apply, and evaluate various machine learning models.	UNIT NO.5