

B-TECH Electronics & Communication Engineering

COURSE COUT COME

SEM II-I

Analog Electronics

CO 1: Describe the characteristics and classification of FET.

CO 2: Describe the real time applications of feedback amplifiers, oscillators, amplifiers and tuned amplifier.

CO 3: To understand the effect of negative feedback, high frequency response and Gain - bandwidth relationship for amplifier design.

CO 4: Describe the importance of low frequency and high frequency analysis

Signals Stochastic Process

CO 1: Represent any arbitrary analog or Digital time domain signal in frequency domain..

CO 2: Explain the importance of sampling, sampling theorem and its effects.

CO 3: Understand the characteristics of linear time invariant systems.

CO 4: Determine the conditions for distortion less transmission through a system.

CO 5: Understand the concepts of Random Process and its Characteristics.

Mathematics –IV

CO 1: Analyze the complex functions with reference to their analyticity, integration using Cauchy's integral theorem

CO 2: Evaluate the Taylor's and Laurent's series expansion of complex functions

CO 3: Express any periodic function in term of sine and cosines

CO 4: Express a non-periodic function as integral representation

Electrical Technology

CO 1: To analyze the performance of transformers.

CO 2: To learn the in-depth knowledge on three phase induction motors..

CO 3: To analyze the performance of special motors and electrical instruments in real time applications.

CO 4: Learn the phases of the compilation

CO 5: Acquire an appreciation for the different parsing techniques.

Network Analysis

CO 1: Gains the knowledge on Basic network elements

CO 2: Learns and analyze the RLC circuits' behavior in detail.

CO 3: Analyze the performance of periodic waveforms

CO 4: Learns and gain the knowledge in characteristics of two port network parameters (Z, Y, ABCD, h & g).

Environmental Studies

CO 1: Based on this course, the Engineering graduate will understand /evaluate / develop technologies on the basis of ecological principles and environmental regulations which in turn helps in sustainable development

CO 2: Apply and communicate quantitative reasoning and/or mathematical skills or statistical models to field and laboratory data to study scientific phenomena.

CO 3: Use geospatial technologies (including global positioning systems, geographic information systems, and remote sensing) to address environmental problems.

CO 4: Demonstrate and awareness of ecosystems in the context of coupled human-environmental interactions.

CO 5: Competently implement an individual or group scientific project, which may include literature review, experimental design, data collection, data analysis, and reporting