COURSE CODE	COURSE NAME	CO	CO STATEMENT
C209	Electronic Circuit Analysis	C209.1	Design and illustrate the basic high frequency transistor amplifier models
		C209.2	Build and compare the design aspects to perform frequency- response analysis of multistage amplifiers
		C209.3	Illustrate the design aspects relevant to positive and negative feedback amplifiers circuits.
		C209.4	Classification and design of different types of oscillators based on the condition for oscillations.
		C209.5	Demonstrate the working principle and characteristics of different types of power amplifiers
		C209.6	Analyze the design aspects of tuned amplifiers to perform desired frequency response.
C210	Management Science	C210 .1	Discuss the process and principles of management in the organization in present scenario.
		C210 .2	Analyze the different challenges of the organization in a systematic and organized manner without compromising the quality.
		C210 .3	Elucidate HRM orientation to the real life work environment and understand the different approaches of management.
		C210 .4	Outline different corporate goals and strategies adopted under changing trend by the organization.
		C210 .5	Explain ethical traits in the field of management to the engineers.

		C210 .6	Identify contemporary management practices in the existing environment.
C211	Random Variables & Stochastic Processes	C211.1	Acquire knowledge on set theory, probability, conditional, total probability & Baye's theorem.
		C211.2	Illustrate and compare the Joint Distribution, Marginal Distribution and density functions of multiple random variables
		C211.3	Understand and determine the operations on single and multiple random variables (statistical)
		C211.4	Acquire knowledge on random process and compare the auto correlation and cross correlation of a random process.
		C211.5	Correlate and compare the power spectral density of auto and cross correlation functions
		C211.6	Analyze the response of Linear Time invariant Systems with random inputs, and modelling of Noise sources
C212	Switching Theory & Logic Design	C212.1	Acquire knowledge about different number systems, and perform different operations.
		C212.2	State Boolean algebra theorems and apply them for minimization of logic functions.
		C212.3	Design and develop different combinational circuits
		C212.4	Realize Boolean functions using PROM, PLA and PAL
		C212.5	Classify and construct various synchronous and asynchronous sequential circuits using Latches and flip flops
		C212.6	Design and analysis of Finite state machines for complex applications
C213	EM Waves and	C213.1	Discuss various laws of electric and magnetic fields

	Transmission Lines	C213.2	Acquire knowledge about the dynamic electric and magnetic fields, relation between them (Maxwell's Equations) and the boundary conditions across media boundaries.
		C213.3	Apply Maxwell's equations to obtain wave equations and determine the propagation parameters of uniform plane wave in free space.
		C213.4	Examine the phenomena of wave propagation in different media and discuss the applications of Poynting theorem
		C213.5	Demonstrate and analyse basic properties of transmission lines and its wave propagation.
		C213.6	Design simple impedance matching transmission line sections and find different parameters using smith chart
C214	Analog Communications	C214.1	Acquire knowledge about the need for modulation and various types of generation and degeneration of modulation techniques.
		C214.2	Discuss the behavior of DSB-SC, SSB-SC, VSB modulation, and analyse their bandwidth requirements and power relations
		C214.3	Distinguish and Analyze the behavior of frequency modulation and phase modulation techniques, generation and degeneration and their bandwidth requirements
		C214.4	Study and analyse the standard noise sources and their effects on AM and FM techniques
		C214.5	Discuss about different types of basic AM, FM Transmitters and receivers in communication systems
		C214.6	Examine the principle of generation and degeneration of different types of Pulse modulation techniques.

C215	Electronic Circuit Analysis Lab	C215.1	Demonstrate the analysis of transistor based electronic circuits.
		C215.2	Analyze the frequency response of multi stage amplifier circuits.
		C215.3	Construct various negative feedback amplifiers and calculate different amplifier parameters.
		C215.4	Design sinusoidal oscillators for a given frequency.
		C215.5	Analyze the behaviour of different power amplifier circuits for audio frequency applications
		C215.6	Plot the frequency response of different Tuned Amplifier Circuits
C216	Analog Communications Lab	C216.1	Design and simulate modulation and demodulation circuits such as AM,DSB-SC,FM
		C216.2	Design and simulate the PAM,PWM & PPM circuits
		C216.3	Construct diode detector and AGC circuits for good reception of the signal
		C216.4	Construct pre-emphasis and de-emphasis circuits at the transmitter and receiver respectively
		C216.5	Analyze the response of base band signals in time domain and in frequency domain
		C216.6	Analysis of sampling techniques by using sampling theorem