

FUNDAMENTAL OF ELECTRICAL AND ELECTRONICS ENGINEERING

EX 101

Lecture : 3
Tutorial : 1
Practical : 3

Year : I
Part : I

Course Objectives:

Objective of the course is to understand the language of electronics, elements, and their functionality, to introduce the DC and AC circuit analysis and basic understanding of analog systems and their applications

- 1 Basic Circuits Concepts (6 hours)**
 - 1.1 Current and Potential
 - 1.2 Passive components; Resistance, Inductance, Capacitance; series, parallel combinations; Kirchhoff's voltage and current laws for dc circuits.
 - 1.3 Signal sources: voltage and current sources; non ideal sources; representation under assumption of linearity; controlled sources: VCVS, C CVS, VCCS, CCCS; concept of gain, transconductance, transimpedance.
 - 1.4 Maximum power transfer, Superposition theorem, Thevenin's theorem, Norton's theorem
- 2 Average and RMS Values (4 hours)**
 - 2.1 Generation of AC voltage
 - 2.2 Waveform and its characteristics
 - 2.3 RMS and Average values of periodic waveforms
- 3 AC Circuit Analysis (12 hours)**
 - 3.1 Single Phase AC Circuit Analysis
 - 3.1.1 Series, parallel and network circuits with sinusoidal excitations
 - 3.1.2 The concept of complex impedance and admittance
 - 3.1.3 Sinusoidal excitation of inductive and capacitive reactance and complex impedance
 - 3.1.4 Concept of time phase differences between various sinusoidal quantities
 - 3.1.5 Phasor concept and phasor representation of AC quantities
 - 3.1.6 Transformed Impedances and network reduction
 - 3.1.7 Real , reactive and apparent power Concepts

Fundamental Of Electrical Engineering And Electronics

Arturo Cuomo



Fundamental Of Electrical Engineering And Electronics:

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