DEPARTMENT OF ELECTRICAL ENGINEERING

Course Outcome of IIIrd sem of Electrical Engineering

SEMISTER:- IIIRD SEM (IIND YR)

Course Title : **Electronics Components and Circuits(ECC)**
Course Code : 3EE200PC

CO 1	Demonstrate the knowledge of semiconductor physics and PN Junction Diode
CO 2	Analyze the rectifier and regulator circuits.
CO 3	Analyze the operational parameters of BJT
CO 4	Analyze various multistage amplifier circuits
CO 5	Demonstrate the knowledge of MOSFET, UJT and their operational parameters
CO 6	Demonstrate the knowledge of Operational Amplifiers and IC741

Course Title : Electrical Circuit Analysis(ECA)
Course Code : 3EE201PC

CO1	Analyze electric circuit using basic circuital laws
CO2	Analyze the circuit using Network simplification theorem
CO3	Solve circuit problems using concepts of electric network topology.
CO4	Evaluate transient response of different circuits using Laplace transform
CO5	Evaluate two-port network parameters and network functions

Course Title : Electrical Measurements & Instrumentation (EMI)
Course Code : 3EE202PC

CO1	Explain the various measuring instruments like PMMC, MI, Electrodynamometer, and Induction type instruments.
CO2	Demonstrate the construction & working of Instrument Transformers and special purpose meters
CO3	Analyze various methods for measurement of resistance, inductance, and capacitance using AC/DC bridges
CO4	Explain the working of various Digital measuring instruments.
CO5	Explain the generalized Instrumentation system & working of different transducers.

Course Title : Community Engagement Project/ Field project(CEP)
Course Code : 3EE400EL

CO1	Apply foundational knowledge in electrical engineering to solve practical and community-related problems.
CO2	Analyze electrical systems relevant to societal and agricultural needs
CO3	Work effectively as part of a team and communicate technical information through structured reports
CO4	Conduct field surveys, evaluate electrical challenges, and propose feasible and sustainable solutions.

Course Title : Electrical Energy Generation(ERG)
Course Code : 3EE205MD

CO1	Explain the working of thermal &Hydro-electric power plants

CO2	Understand the basics of solar and wind energy and their conversion
CO3	Demonstrate the knowledge of various types of substations and distribution systems
CO4	Demonstrate the knowledge of electrical wiring installation and earthing system.

Course Title : Power Supply System(PSS)
Course Code : 3EE206OE1

CO1	Practice basic Yoga and Pranayama in daily life to maintain physical and mental fitness.
CO2	Practice meditation regularly for improving concentration and better handling of stress and anxiety.
CO3	Follow healthy diet and hygienic practices for maintaining good health.

Course Title : Entrepreneurship Development
Course Code : 3EE207EM

CO1	Explain the fundamentals of entrepreneurship and its role in economic development
CO2	Apply innovation and design thinking to develop business ideas.
CO3	Prepare a feasibility study and basic business plan for entrepreneurial ventures