



Department Of Electrical Engineering

Course Outcome of Electrical Engineering of Fifth Semester

Course Title : A.C. MACHINES PERFORMANCE

Course Code : (315333)

CO1	Test the performance of three phase induction motor.
CO2	Control the speed of three phase induction motor using appropriate technique(s).
CO3	Use single phase induction motor for industrial applications.
CO4	Test the performance of three phase alternator.
CO5	Use special purpose electrical machines for industrial applications

Course Title : SWITCHGEAR AND PROTECTION

Course Code : (315334)

CO1	Recognize the different types of faults occurring in power system.
CO2	Select the suitable switchgears for different applications.
CO3	Test the performance of different protective relays.
CO4	Use suitable protection schemes for alternators, motors, transformers, busbars and transmission lines.
CO5	Select suitable protection schemes for power system against over voltages

Course Title : ENTREPRENEURSHIP DEVELOPMENT AND STARTUPS

Course Code : (315002)

CO1	Identify one's entrepreneurial traits.
CO2	Use information collected from stakeholder for establishing/setting up/founding starts up
CO3	Use support systems available for Starts up
CO4	Prepare project plans to manage the enterprise effectively

Course Title : SEMINAR AND PROJECT INITIATION COURSE

Course Code : (315003)

CO1	Identify topics of seminar presenting to the large gathering at the institute/conference.
CO2	Collect relevant and updated research based data and information to prepare a paper of seminar presentation.
CO3	Apply presentation skills.
CO4	Create conducive environment for learning and discussion through seminar presentation.
CO5	Identify a problem statement and establish the action plan for the successful completion of the project



Course Title : INTERNSHIP(12 WEEKS) (ITR)

Course Code : (315004)

CO1	Observe time/resource management and industrial safety aspects.
CO2	Acquire professional experience of industry environment .
CO3	Establish effective communication in working environment.
CO4	Prepare report of assigned activities and accomplishments.

Course Title : ELECTRIC VEHICLE TECHNOLOGY

Course Code : (3115335)

Elective-I

CO1	Identify components and subsystems used in electric vehicles.
CO2	Select electrical drives for particular EV application.
CO3	Test the performance of batteries and energy storage systems used for EV applications.
CO4	Apply the concept of converters and charging system in EV.
CO5	Implement Indian and state EV policies for EV applications.

Course Title : POWER SYSTEM OPERATION AND CONTROL

Course Code : (3115336)

Elective-I

CO1	Represent power system by reactance diagram using per unit method
CO2	Manage real and reactive power balance within a power system network.
CO3	Ensure the effective operation of an automatic generation control system.
CO4	Apply various techniques to maintain power system stability.
CO5	Operate and manage a load dispatch center

Course Title : RENEWABLE ENERGY TECHNOLOGY

Course Code : (3115337)

Elective-I

CO1	Test the performance of the solar panels.
CO2	Maintain working of small wind turbines.
CO3	Utilize small capacity hydrogen fuel cell systems for various applications.
CO4	Maintain basic components of biogas plant.
CO5	Identify major components of the geothermal, ocean and small hydro power plants