



Department Of Electrical Engineering

Course Outcome of Electrical Engineering of Sixth Semester

Course Title : MANAGEMENT

Course Code : (315301)

CO1	Use relevant management skills to handle work situation
CO2	Apply appropriate techniques of product, operations and project management
CO3	Use comprehensive tools of recent management practices
CO4	Plan suitable marketing strategy for a product / service
CO5	Utilize supply chain and human resource management techniques for effective management

Course Title : EMERGING TRENDS IN ELECTRICAL ENGINEERING

Course Code : (316326)

CO1	Suggest the relevant IoT technologies for electrical systems.
CO2	Elaborate the use relevant IoT and SCADA for Automation of electrical Grid systems.
CO3	Implement electrical engineering related emerging trends to develop smart city.
CO4	Suggest the relevant IMCC for the given application (s).
CO5	Select the relevant improved tariff and billing solution for the specified type of consumer

Course Title : ENERGY CONSERVATION AND AUDIT

Course Code : (316327)

CO1	Interpret energy conservation policies in India.
CO2	Implement energy conservation techniques in electrical machines.
CO3	Apply energy conservation techniques in electrical installations.
CO4	Use Cogeneration and relevant tariff for reducing losses in facilities.
CO5	Carryout energy audit for electrical system.

Course Title : MAINTENANCE OF ELECTRICAL EQUIPMENTS

Course Code : (316328)

CO1	Follow safety norms to prevent accidents while using electrical equipment.
CO2	Test electrical equipment.
CO3	Maintain rotating electrical machines.
CO4	Maintain single phase and three phase transformers.
CO5	Maintain insulation systems of electrical equipment.

Course Title : BASIC PYTHON PROGRAMMING

Course Code : (313011)

CO1	Develop script to demonstrate use of basic building blocks of python.
CO2	Implement conditional and looping statements for given problem statement.
CO3	Perform operations on sequence structures in python.
CO4	Implement basics of object oriented programming concepts.
CO5	Create modules and packages for given purpose



Course Title : CAPSTONE PROJECT

Course Code : (316004)

CO1	Elaborate the identified field problem from the perspective of project work at institute.
CO2	Conduct feasibility & viability analysis (using data collection, experiments, Simulation , Coding) to validate required resources, cost, support of the project work.
CO3	Apply the acquired knowledge and skills in providing solutions to the real field/industrial problems.
CO4	Present Project and its output/ findings / achievements alongwith its exhibits

Course Title : INDUSTRIAL AUTOMATION

Course Code : (316329)

Elective-II

CO1	Develop control and power circuits for the given application
CO2	Apply the fundamentals of PLC for effective operation
CO3	Apply the basics of PLC programming for a given application
CO4	Test ladder logic programs for given industrial applications
CO5	Familiarize the SCADA and DCS architecture for process control and data acquisition from the field.

Course Title : INDUSTRIAL DRIVES AND CONTROL

Course Code : (316330)

Elective-II

CO1	Apply the basics of electric drive for precise motor control operation.
CO2	Use appropriate braking method for different AC and DC motors.
CO3	Control precisely the speed of a given DC motor using appropriate phase controlled converter and chopper.
CO4	Control precisely the speed of a given Induction Motor using appropriate AC Drive technique.
CO5	Control precisely the speed of a given motor using advanced techniques

Course Title : POWER SYSTEM ANALYSIS

Course Code : (316331)

Elective-II

CO1	Calculate Inductance and Capacitance for different types of transmission lines.
CO2	Use generalized circuit theory principles for calculations of transmission line performance
CO3	Estimate the power at sending and receiving ends of transmission line.
CO4	Analyze the performance of transmission lines graphically
CO5	Interpret the data required for Load flow studies