Programme: Master of TechnologyCourse Name: Power System Dynamics

Semester: I Course Code: 559111 (24)

CO1: Study of modelling of Synchronous Machine.

CO2: Development of mathematical models for synchronous machine

CO3: Simulation of Synchronous Macines and its linear model

CO4: Effect of Excitation Systems on Stability of Machines

CO5 Study of Multi Machine System

Department of Electrical Engineering

Course Outcomes

Programme: Master of Technology Course Name : Power System Optimization

Semester: I Course Code: 575112 (24)

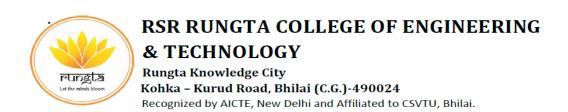
CO1: To Understand the Linear Programming.

CO2: To Understand the Non - Linear Programming

CO3: To Understand the Constrained Optimization Problem

CO4: To understand the dynamic programming

CO5 To get familiar with Applications of Power Systems



Programme: Master of TechnologyCourse Name: Power System Protection

Semester: I Course Code: 559113 (24)

CO1: To understand protective relaying

CO2: To gain knowledge about different types of Relays

CO3: To understand the protection of different power system components

CO4: To gain the knowledge about Numerical Relays

CO5 To understand different aspects of Circuit Breakers

Department of Electrical Engineering

Course Outcomes

Programme: Master of TechnologyCourse Name: Non-linear Control

Semester: I Course Code: 575112 (24)

CO1: To understand about state space analysis, Controllability, Observability

CO2: To gain the knowledge about different types of Non Linearities, their describing functions and Phase Plain analysis

CO3: To understand about state space analysis methods

CO4: To gain the knowledge about different types of Non Linearities, their describing functions and Phase Plain analysis

CO5 To gain the knowledge about different types of Non Linearities, their describing functions and Phase Plain analysis

Programme: Master of Technology Course Name: Flexible AC transmission

System

Semester: I Course Code 575131 (24)

CO1: To understand FACTS concepts and general system considerations

CO2: To gain the knowledge about Static Shunt Compensation

CO3: Understand the working principle of FACTS devices and their operating characteristics

CO4: To understand about static series compensation

CO5 To understand about UPFC and IPFC

Department of Electrical Engineering Course Outcomes

Programme: Master of Technology Course Name: EHV-AC & DC

Semester: II Course Code 559211 (24)

CO1: To gain the knowledge about reactive Power Compensation of EHVAC lines

CO2: To Understand DC Power Transmission Technology

CO3: To understand HVDC Converters & HVDC System Control

CO4: To gain the knowledge about Converter Faults and Protection

CO5 To understand about Reactive Power Control

Programme: Master of Technology Course Name : Power Quality

Semester: II Course Code 559212 (24)

CO1: differentiate between different types of power quality problems.

CO2: explain the sources of voltage sag, voltage swell, interruptions, transients, long duration over voltages and harmonics in a power system.

CO3: analyze power quality terms and power quality standards.

CO4: explain the principle of voltage regulation and power factor improvement methods.

CO5 demonstrate the relationship between distributed generation and power quality.

Department of Electrical Engineering

Course Outcomes

Programme: Master of Technology Course Name: Power System Stability &

Control

Semester: II Course Code 559211 (24)

CO1: To gain the knowledge about Power System Structure and components

CO2: To understand Control of Power and Frequency in a power System

CO3: To gain the knowledge about the Control of voltage and Reactive Power in a Power System

CO4: To understand Concept of Stability

CO5 To understand Techniques for the improvement of stability

Programme: Master of TechnologyCourse Name: Optimal Control Systems

Semester: II Course Code 585211 (24)

CO1: To Understand Linear Spaces and Linear operators

CO2: To Understand General Mathematical Procedures for optimal Control Problem

CO3: To Understand Optimal Feedback Control

CO4: To gain the knowledge about State Regulators

CO5 To gain the knowledge about Stochastic Optimal Linear Estimation and Control

Department of Electrical Engineering

Course Outcomes

Programme: Master of TechnologyCourse Name: Distribution System

Automation

Semester: II Course Code 559233 (24)

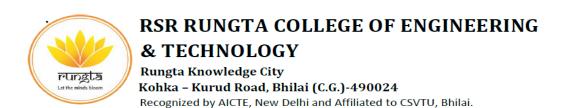
CO1: To understand Distribution System Automation and Planning

CO2: To understand Electrical Design Aspects of Industrial, Commercials Buildings

CO3: To understand the Power Quality

CO4: To Understand Deregulated Systems

CO5 To gain the knowledge about Project planning for distribution automation



Department of Electrical Engineering

Course Outcomes

Programme: Master of TechnologyCourse Name: Digital Control Systems

Semester: III Course Code 559233 (24)

O1:To understand the significance of sampling and reconstruction of a to d and d2a converter, evaluation of z transform, illustrate the plane analysis of discrete time

CO2:To evaluate state space analysis by using discrete time state space equation, test for controllability and observability

CO3:Mapping between s plane And z plane. liapunov stability analysis

CO4:Design of discrete time control system by lead lag compensator and digital PID controllers

CO5:Design of state feedback controllers, observers

Department of Electrical Engineering

Course Outcomes

Programme: Master of Technology Course Name: Energy Conservation & Audit

Semester: III Course Code 559331 (24)

CO1: Familiarizing with management especially with management in energy sector engineering.

CO2: Fundamentals of electric motors, electric drives with efficiency and control strategies, optimal selection

CO3: To understand transformer loading, efficiency, losses and capacitor losses, peak demand load.

CO4: To evaluate Energy conservation in Lighting Schemes, cogeneration technologies

CO5: To understand Energy conservation measures, Electrolytic Process of Air conditioning & Refrigeration and Electric water heating equipment