

## **EEE**

### **III YEAR –I SEM**

#### **CONTROL SYSTEMS**

- CO 1.** Outline the principles of various types of control systems.
- CO 2.** Develop transfer function of control systems in continuous time.
- CO 3.** Describe and simplify a control system using block diagram reduction and signal flow graph techniques.
- CO 4.** Analyze the transient and steady state performances of control systems.
- CO 5.** Investigate the stability of a system using time domain and frequency domain techniques.

#### **POWER SYSTEMS-II**

- CO 1.** Recall the fundamentals of Power System-I
- CO 2.** Compare Transmission and Distribution
- CO 3.** Classify short, medium and long transmission lines
- CO 4.** Explain the Skin and Proximity effects
- CO 5.** Derive the expression for Sag and Tension in Transmission lines
- CO 6.** Calculate the insulation resistance and stress in insulation

#### **Power Electronics**

- CO 1.** Apply the conceptual things to real-world Electronic problems
- CO 2.** Express working of Thyristors and Converters
- CO 3.** Articulate different types of Thyristors and converters
- CO 4.** Discuss about Thyristors, inverters and rectifiers
- CO 5.** Describe the Thyristors and Converters construction

### **ELECTRICAL MACHINES-III**

- CO 1.** Describe the various parts of an electrical machine.
- CO 2.** Conduct experiments on Ac Machines to find the characteristics.
- CO 3.** Calculate torque and speed of given Machine.
- CO 4.** Define Direct and quadrature axis reactance.

### **INTEGRATED CIRCUIT ANALYSIS**

- CO 1.** Design operational amplifier with linear integrated circuits.
- CO 2.** Differentiate linear and non-linear applications.
- CO 3.** Classify the different logic family circuits and their characteristics.
- CO 4.** Design circuits using operational amplifiers for various applications.

### **Management Science**

- CO 1.** Differentiate functional roles and their importance in business context.
- CO 2.** Apply analytical, critical thinking and problem solving skills in a business context.
- CO 3.** Describe materials management in the organization.
- CO 4.** Describe the appropriate marketing strategy for the business and HR policies.
- CO 5.** Identify the importance of quality or minimum errors in the organization with wide application of different practices of management to use resources.