

EEE III YEAR – II SEM

ELECTRICAL AND ELECTRONIC INSTRUMENTATION

- CO 1.** knowledge on different types of measuring instruments their construction operation and characteristics
- CO 2.** Measurement of voltage and current through potentiometers and instrument transformers.
- CO 3.** Knowledge on measuring the power and energy
- CO 4.** Methods of measuring resistance, inductance and capacitance
- CO 5.** operation of different types of transducers

STATIC DRIVES

- CO 1.** Derive the Speed-Torque characteristics of DC motors through Phase Controlled Rectifiers.
- CO 2.** Get thorough knowledge on Four Quadrant Operation of DC Drives through Dual Converters.
- CO 3.** Use space vectors presented on a physical basis to describe the operation of an ac machine.
- CO 4.** Describe the structure of Electric Drive systems and their role in various applications such as flexible production systems, energy conservation, renewable energy, transportation etc.
- CO 5.** Control Induction motor through station voltage.

Computer Methods in Power Systems

- CO 1.** Classify different network matrices.
- CO 2.** Compare different load flow study methods.
- CO 3.** Explain about different faults and their study.
- CO 4.** Apply the equal area criterion to transient stability analysis.
- CO 5.** Analyze the work effectively in multidisciplinary and multi-cultural teams.

MICRO PROCESSORS AND INTERFACING DEVICES

- CO 1.** Explains overview on the architecture and basic concepts of microprocessor.
- CO 2.** Discuss the architecture and software aspects of microprocessor 8086.
- CO 3.** Write assembly language program in 8086 for various applications.
- CO 4.** Create the memory interfacing techniques with 8085, 8086 and 8051.
- CO 5.** Create the input output interfacing techniques with 8085, 8086 and 8051.
- CO 6.** Give an overview on the architecture and basic concepts of microcontroller.

ENVIRONMENTAL STUDIES

- CO 1.** Implement the ecological principles in when and wherever they are required.
- CO 2.** Recognize and assess the anthropogenic impact on the entire environment.
- CO 3.** Develop eco-friendly technologies on the basis of ecological principles and environmental regulations which in turn help in sustainable development.

Human Values & Professional Ethics

- CO 1.** Analyze their own selves, families, society and environment with the end purpose of imbibing better values in professional relationships.
- CO 2.** Ability to utilize the professional competence for augmenting universal human order.
- CO 3.** Ability to identify the scope and characteristics of people –friendly and and eco-friendly production systems
- CO 4.** Ability to identify and develop appropriate technologies and management patterns for above production systems.

Measuring energy in single phase and poly phase circuits along with basic knowledge of its construction and operation.

