

# IVYear -II Semester

## COURSE OUTCOMES – MECHANICAL ENGINEERING

### Production Planning and Control

- CO 1:-** Apply the systems concept for the design of production and service systems
- CO 2:-** Make forecasts in the manufacturing and service sectors using selected quantitative and qualitative techniques.
- CO 3:-** Apply the principles and techniques for planning and control of the production and service systems to optimize/make best use of resources.
- CO 4:-** Understand the importance and function of inventory and to be able to apply selected techniques for its control and management under dependent and independent demand circumstances.

### Plant Layout& Material Handling

- CO 1:-** understand the Background for material handling equipments
- CO 2:-** selection of material handling equipment and its materials according to their applications.
- CO 3:-** Identify the role that each department plays in achieving the goals of an organization
- CO 4:-** Explain the problems in organizing, planning and controlling the use of men, money, materials and machines for industrial production.
- CO 5:-** Apply industrial engineering principles to solve the problems in organizing, planning and controlling  
the use of men, money, materials and machines for industrial production.

### Renewable Energy Sources

- CO 1:-** Describe the environmental aspects of non-conventional energy resources. In Comparison with various conventional energy systems, their prospects and limitations.
- CO 2:-** Know the need of renewable energy resources, historical and latest developments.
- CO 3:-** Describe the use of solar energy and the various components used in the energy production with respect to applications like - heating, cooling, desalination, power generation, drying, cooking etc.
- CO 4:-** Appreciate the need of Wind Energy and the various components used in energy generation and know the classifications

**CO 5:-** Understand the concept of Biomass energy resources and their classification, types of biogas Plants-applications

**CO 6:-** Compare Solar, Wind and bio energy systems, their prospects, Advantages and limitations