

# IYear II Semester

## COURSE OUTCOMES – MECHANICAL ENGINEERING

### APPLIED PHYSICS

- CO1:-Realize the importance of elastic behavior of materials.
- CO2:-Learn Sabine's formula for reverberation time and apply in architecture of buildings.
- CO3:-Learn various methods of producing ultrasonics and their uses.
- CO4:-Learn magnetic, dielectric and superconducting properties of materials and their applications.

### ENGINEERING CHEMISTRY

- CO1:-Students will gain the basic knowledge of electrochemical procedures related to corrosion and its control.
- CO2:-They can understand the basic properties of water and its usage in domestic and Industrial purposes.
- CO3:-They learn the use of fundamental principles to make predictions about the general properties of materials.
- CO4:-They can predict potential applications of chemistry and practical utility in order to become good engineers and entrepreneurs

### MATHEMATICS-III

- CO1:-differentiate among random variables involved in the probability models which are useful for all branches of engineering
- CO2:-calculate mean, proportions and variances of sampling distributions and to make important decisions for few samples which are taken from a large data
- CO3:-solve the tests of ANOVA for classified data
- CO4:-find the root of a given equation and solution of a system of equations
- CO5:-fit a curve for a given data
- CO6:-find the numerical solutions for a given first order initial value problem

## PROFESSIONAL COMMUNICATION IN ENGLISH

**CO1:-**Use English Language effectively in spoken and written forms.

**CO2:-**Comprehend the given texts and respond appropriately.

**CO3:-**Communicate confidently in formal and informal contexts.

## BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

**CO1:-**To analyze and solve electrical circuits using network laws and theorems.

**CO2:-**To identify and characterize diodes and various types of transistors.

## ENGLISH LANGUAGE COMMUNICATION SKILLS LAB

**CO1:-**Better understanding of nuances of English language through audio- visual experience and group activities

**CO2:-**Neutralization of accent for intelligibility

**CO3:-**Speaking skills with clarity and confidence which in turn enhances their employability skills.

## ENGINEERING WORKSHOP

**CO1:-** Study and practice on machine tools and their operations

**CO2:-** Practice on manufacturing of components using workshop trades including plumbing, fitting, carpentry, foundry, house wiring and welding.

**CO3:-** Identify and apply suitable tools for different trades of Engineering processes including drilling, material removing, measuring, chiseling.

**CO4:-** Apply basic electrical engineering knowledge for house wiring practice.