R16

1) Engineering Physics-II

Course Outcomes:

After completion of this course the student is able to

- Realize the importance of behavior of a particle quantum mechanically.

- Learn concentration estimation of charge carriers in semi-conductors.

- Learn various magnetic dielectric properties and apply them in engineering applications.

- Know the basic principles and applications of super conductors.

2) Mathematics-II

Course Outcomes:

After learning the contents of this course the student must be able to

- Use Laplace transform techniques for solving DE's

- Evaluate integrals using Beta and Gamma functions

- Evaluate the multiple integrals and can apply these concepts to find areas, volumes, moment of inertia etc. of regions on a plane or in space

- Evaluate the line, surface and volume integrals and converting them from one to another

3) Mathematics-III

Course Outcomes:

After learning the contents of this course the student must be able to

- They can able to differentiate among random variables involved in the probability models which are useful for all branches of engineering

• They get knowledge to do calculation on mean, proportions and variances of sampling distributions and to make important decisions s for few samples which are taken from a large data.

• With the gained knowledge they can solve the tests of ANOVA for classified data

• They do get an ability of finding the root of a given equation and solution of a system equations and fit a curve for a given data

• Student can able to find the numerical solutions for a given first order initial value problem.

4) Computer Programming in C

Course Outcomes:

• This course demonstrate the basic knowledge of computer hardware and software.

• They gain knowledge and Able to write algorithms for solving problems.

• Ability to draw flowcharts for solving problems.

• Ability to code a given logic in C programming language.

• Gain knowledge in using C language for solving problems.

5) Engineering Graphics

Outcomes:

• Ability to prepare working drawings to communicate the thoughts and data.

• Ability to examine, recognize and interpret engineering drawings.

• Potential to examine projections of normal solids – auxiliary perspectives.

• Capacity to study sections or sectional views of right ordinary solids

6) Engineering Chemistry Lab

1. The student is expected to learn from this laboratory course the concept of error and its analysis.

2. It also allows the student to develop experimental skills to design new experiments in Engineering. With the exposure to these experiments the student can compare the theory and correlate with experiment.

3. He is able do instrumental methods on colorimetry, conductometry, potentiometric.

4. Student has an ability to prepare aspirin and Thiokol rubber.

5. Student can able to do adsorption of acetic on charcoal.

7) Engineering Physics Lab

1. The student is expected to learn from this laboratory course the concept of error and its analysis.

2. It also allows the student to develop experimental skills to design new experiments in Engineering. With the exposure to these experiments the student can compare the theory and correlate with experiment.

3. Student has an ability to understand LED and LASER sources.

4. He gain knowledge of Energy gap of a material of p-n junction.

5. Student get understand about Wave length of light and characteristics of a solar cell.

8) Computer Programming in C Lab

Outcomes:

1. Ability to design and test programs to solve mathematical and scientific problems.

2. Ability to write structured programs using control structures and functions.

3. Able to write program in C to solve the problem either mathematical or any other query.

4. Get an ability to do implement linear data structure such as Lists, Stacks, and Queues.

5. At the end of this course student can evolvable to implement programs and methods on simple searching and sorting.