

First Year Engineering (Semester II)

REV- 2016, CBCS

Course Outcomes(COs)

Subject: Applied Mathematics-II (FEC201)

List of COs

1. Apply the concepts of first order and first degree differential equation to the engineering problems.
2. Apply the concepts of higher order linear differential equation to the engineering problems.
3. Apply the concepts of Beta –Gamma functions to the engineering problems.
4. Apply the concepts of double integral of different coordinates to the engineering problems.
5. Apply the concepts of triple integral of different coordinates to the engineering problems.
6. Apply Sci-lab programming techniques to solve
Differential equations to modal complex engineering activities

Subject: Applied Physics- II (FEC202)

List of COs

1. Ability to demonstrate competency and understanding of basic concepts of Physics like - interference and diffraction in various applications.
2. Explain working of different lasers and their applications.
3. Apply the principles of TIR in Optical fibre and its applications in various fields.
4. Apply principles of electrostatic and magnetostatic focussing in CRO.
5. Compare of various coordinate systems and apply of electrostatics principles to derive Maxwell's equations.
6. Assimilate knowledge of the Nanotechnology and tools used SEM, TEM, AFM.

Subject: Applied Chemistry- II (FEC203)

List of COs

1. Identify types of corrosion and factors affecting it related to problems affecting all industries.
2. Identify types of corrosion control methods to study corrosion control in various industries.
3. Apply the knowledge of different types of fuels, including their production and refining methods and combustion mechanisms.
4. Illustrate composition and properties of different types of alloys and the process of powder metallurgy.
5. Illustrate principles of Green Chemistry.
6. Illustrate properties and applications of different types of composite materials.

Subject: Engineering Drawing (FEC204)

List of COs

1. Apply the basic principles of projections in 2D drawings
2. Apply the basic principles of projections in converting 3D view to 2D drawing.
3. Read a given drawing.
4. Visualize an object from the given two views.
5. Use CAD tool to draw different views of a 3D object.
6. Use CAD tool to draw an object in 3D.

Subject: Structured Programming Approach (FEC205)

List of COs

1. Illustrate the basic terminology used in computer programming
2. Illustrate the concept of data types, variables and operators using C.
3. Design and Implement control statements and looping constructs in C.
4. Apply function concept on problem statements

5. Demonstrate the use of arrays, strings, structures, dynamic memory and files handling in C.
6. Develop effective programs using the concepts of structured programming.

Subject Name: Communication Skills (FEC206)

List of COs

1. To acquaint the students with appropriate language skills with the purpose of improving the existing ones – LSRW
2. To make the learners understand the importance and effective use of non-verbal communication
3. To make the learner proficient in public speaking and presentation skills
4. To guide and teach the students to utilize the principles of professional business and technical writing for effective communication in the global world
5. To make the learner capable of creating official content digitally for further communication in the corporate environment
6. Write a set of easy to understand technical description, instruction and convey the same using global information technology.

Subject: Basic Workshop Practice –II (FEL201)

List of COs

1. Applying the engineering skills in day to day life
2. Apply the fitting skills and make some small jobs using fitting skills.
3. Apply the welding knowledge and weld small jobs
4. Apply the knowledge and skills to make some sheet metal products.