

Course Outcomes
First Year Engineering Department
GROUP-A

Engineering Mathematics –I

CO101.1	Student will be able to find nth Derivatives of a function
CO101.2	Student will be able to understand differentiate Partially and Transform to independent variables
CO101.3	Student will learn Maxima and Minima concept
CO101.4	Student will be skilled to find Argument principal and roots of algebraic function
CO101.5	Student will get the knowledge for solving First order and First degree differential equation
CO101.6	Student will get the knowledge for solving First order and Higher degree differential equation

Engineering Physics

102.1	Student learned the semiconductor physics and implements the knowledge to design the various electronic circuits for various technical purposes.
102.2	Student will gain the knowledge of modern physics and get brief idea of theoretical and experimental development.
102.3	Student will be able to understand the principles of electric and magnetic fields and becomes able to work with radio telecommunication.
102.4	Student will aware about the light phenomenon and able to design the various experiments on light wave and also able to find out refractive index of materials, wavelength of light and regularity of optical surfaces.
102.5	Student will gain the knowledge of principles of optical fiber and able to implement the knowledge in optical communication.
102.6	Student learned the principles of fluid dynamics, ultrasonic wave and acoustics of building and apply the knowledge to fluid power technology, to design the technology for detection of submarines, icebergs etc. in Ocean, direction signaling etc., to design the acoustically good hall or auditorium.

Engineering Mechanics

103.1	Students will be able to understand the concept of force and rigid bodies under the action of forces.
103.2	Students will be skilled to analyze truss and friction in equilibrium.
103.3	Students will gain knowledge about different properties of area and principle of virtual work.
103.4	Students will learn kinematics of rigid body for different types of motion.
103.5	Students will get brief idea about dynamic equilibrium and kinetic of rigid body.
103.6	Students will become aware about the principles of work power energy and impulse momentum.

Engineering Drawing:

104.1	Students will be able to understand and implement principle of various types of curves in real life and industries.
104.2	Student will be able to understand theory of projections with reference to point, line and plane.
104.3	Student will be able to understand the principle of projections, Orthographic projections & it's practical application in industries.
104.4	The students will be able to learn the various methods of projection of various objects inclined in different positions.
104.5	The students will understand the utilization of Engineering Drawing to reveal the internal details of an object.
104.6	To develop the ability of the Students to construct Isometric Views/Drawings and its application in industries

Workshop I

1	Students will be able to perform operations like drilling, tapping & filing manually which is not done generally by machine on given material
2	Students will be skill to give different shape to a material by using heating, pressing ,hammering , Flattering manually on the material
3	Students will be able to create internal threads on M.S. Flats & external threads on GI pipes. Also will have to understand other plumbing joints.
4	Students will acquire the knowledge about engineering materials with their alloys including mechanical properties like ductility ,malleability, hardness, brittleness etc.
5	Student will have understood the working of various parts of lathe machine also awareness of performing different metal removing operations.

GROUP-B

Engineering Mathematics-II

105.1	Student will be able for solving simultaneous equation by Matrix method
105.2	Students will get the knowledge to expand function in Fourier series
105.3	Student will be able to find Volume of parallelepiped using STP and how to trace the curve
105.4	Students can reduce the function of Higher order into Lower order
105.5	Students will be able to find Area using double Integration
105.6	Students will be able to find Volume using triple Integration

Engineering Chemistry

106.1	Student will be able to understand Technological development in Water.
106.2	Student will learn Chemistry & Principles involved in Corrosion, its control & Nanotechnology.
106.3	Student will get brief idea about Concept of analytical techniques in manufacturing of Portland cement & Nuclear fuel & Power generation
106.4	Student will be able to understand Importance of Fuel & Lubricants.
106.5	Student will be skilled to Utilizations of Polymers & Engineering materials towards different applications.
106.6	Student will become aware about Chemistry involved in the different segment of Environment

Computer Programming

107.1	Students will Understand & Able to Explain Basics Of Computer And Problem Solving Based on Algorithm.
107.2	Students Can Explain Basic Theory on Concepts Of C Programming.
107.3	Graduate Can Develop The Skills Of Programming With Reference To All The Control Statements and The Deep Theory Of Functioning.
107.4	To Handle Large Amount Of Data Students Can Adapt Concepts of Different Types of Storage Class And The Use of Array and The Use of Array And String will Help To Enhance Programming Concepts.
107.5	By Using Concepts Of Pointers Graduate will handle The Large Storage Of Data With Minimum Memory Requirement.
107.6	With The Help Of File Handling Concept Graduate Can Access A Bunch Of Data Through A Particular Disk With Its Specific Location And also Through Structures. He Can Access The Data With A Single Statement.

Electrical Engineering

108.1	Students will be able to understand and apply basic laws and theorems of DC electric circuits.
108.2	Students will learn the various terminologies of magnetic circuits and will be able to apply the basics of Electromagnetic Induction in Electromechanical Conversion and Measuring Instruments
108.3	Students will get proficient knowledge about AC circuits, its different types and nature of loads.
108.4	Students will get acquainted to three phase AC circuits and its applications in Industry.
108.5	Student will be able to formulate the working of electrical machines and apply it in industries, automations by analyzing its characteristics.
108.6	Students will be able to estimate and correct deviations in measurements due to influence on instruments and accuracy of the instruments.