Subject Name	Description
Mathematics-III	 The course intends to provide an overview of Matrices which occur in physical and engineering problems This course helps in translating a physical or other problem in to a mathematical model To provide an overview of discovering the experimental aspect of modern applied mathematics This course creates the ability to model, solve and interpret any physical or engineering problem
Engineering Economics & Industrial Management	Understanding of the concept of cost estimation, depreciation, Industrial management & Materials management
Thermodynamics	 To understand basic concepts of Thermodynamics To study Laws of Thermodynamics To study concept of Entropy To study properties of pure substances
Strength of Material-I	 To study concept of Stress & Strain To Study Shear Force & Bending moment To study Deflection in Beams
Machine Drawing	• Students should be able to understand the drawing of the machine components
Kinematics of Machine	• Students will learn about analysis of motion and forces in machine components
Production Technology-I	 To learn basic tool geometry and cutting mechanism of a single point as well as double point cutting tool. To learn about Tool life and its calculations To understand about Jigs and fixtures
Kinematics of machine Lab	 To learn about velocity and acceleration diagram To determine coefficient of friction
Thermodynamics Lab	• To understand the principal & working of engines and boilers

Strength of Material Lab	 Students will perform the test related to properties of the materials including hardness test Students will know about the Mechanical Advantage and efficiency of machines
Personality Development	 After thorough learning of Quantitative Aptitude and Reasoning, a student Will be able to critically evaluate various real life situations by resorting to Analysis of key issues and factors Will be able to read between the lines and understand various language structures Will be able to demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions
Production Technology II	 To understand the kinematics of machine tool To understand various manufacturing methods To understand machine tool vibration & dynamometry.
Material Science	 To understand the crystal structure & defects To understand the phase diagrams & TTT curves To understand deformation & failure of materials To understand the phenomenon of creep & corrosion
Strength of Material II	 To understand concept of strain energy and Impact loading To study Unsymmetrical bending To Study Thick cylinders and Spheres
Fluid Mechanics	 Students will study the fluid properties and their importance Students will analyze the flow of fluid through various channels
Dynamics of Machine	 Students will learn static force analysis Students will learn about turning moment diagrams Students will have understanding of governors and balancing Students will learn about gear trains
Production Technology Lab	• Student should be able to perform operations on milling machine, Lathe machine, TIG/MIG welding, Slotter
Fluid Mechanics Lab	• The students will analyze the effect of forces generated when fluid flow takes place over a solid object, applications of the control volume approach, demonstration of the momentum and energy equations, viscosity measurement and engineering correlations.