

Strength of Material lab



Strength of Material lab is equipped with Universal testing machine, Fatigue testing machine, Impact testing machine, Rockwell cum Brinell hardness testing machine, Deflection of beam apparatus

This Lab supplement the theoretical knowledge gained in Strength of Materials with practical testing under applied loads. This would enable the student to have a clear understanding of the design for strength and stiffness.

Fluid Mechanics Lab



This lab consists of Bernoulli's theorem apparatus, Reynold apparatus, Triangular notch with SS tank setup, Annulus double pipe with SS setup, Venturi meter with SS tank setup, Orifice with SS tank setup, Flow through mouthpiece with SS tank setup, Study of friction in pipes (Flow through pipes with SS tank setup) and Wind tunnel

In this lab students compare the results of analytical models to the actual behavior of real fluid flows and practice standard measurement techniques of fluid mechanics and their applications.

Dynamics of Machinery lab



This lab has Motorized Gyroscope, Governor, Static and Dynamic Balancing apparatus, Cam Analysis apparatus, Whirling of Shaft apparatus, Longitudinal Vibration of Spring mass system, Single rotor system, Tri-Filar System, Compound pendulum/ Bi-Filar system.

This lab has been designed to supplement the principles learnt in Kinematics and Dynamics of Machinery and to understand how certain measuring devices are used for dynamic testing.

Turbo machine lab



The hydraulic machines are integral part of industry. This lab intended to familiarize the operation of turbo machines for compressible and incompressible fluids. To study the various turbo machines and pumps.

Manufacturing Process Lab



In This lab students will learn and identify parts of a Lathe Machine and different operations on a Lathe to become skilled to handle and use drilling, lathe, milling and surface grinding machines.

CNC lab



Automation is a technology adopted with the application of mechanical, electronic and computer – based systems to operate and control production. In industries the CNC machines are used for various machining operations like **shearing, flame or plasma cutting, punching**, and many other applications

Heat Transfer Lab



The industrial applications of heat transfer fluids are diverse, ranging from simple, static design to advanced multi-loop systems performing numerous functions in a manufacturing operation. This laboratory provides good practical knowledge of various heat transfer principles.

Workshop



The workshop technology gives the basic working knowledge for the production of various engineering products. It explains the construction function and the use of various working tools, measuring tools, equipment and machines as well as the technique of manufacturing a product from its raw material

Materials and Metrology lab



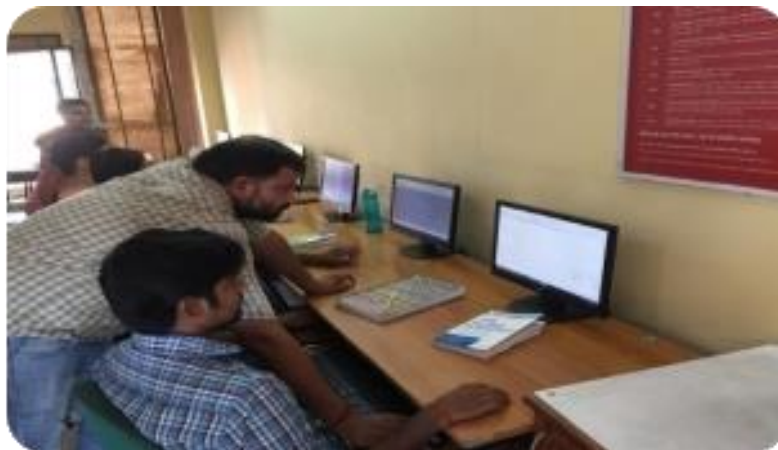
In this lab students will develop knowledge about micro structure examination and properties of materials which is modified by different heat treatment process.

This lab is intended to practices in measurements and measuring instruments

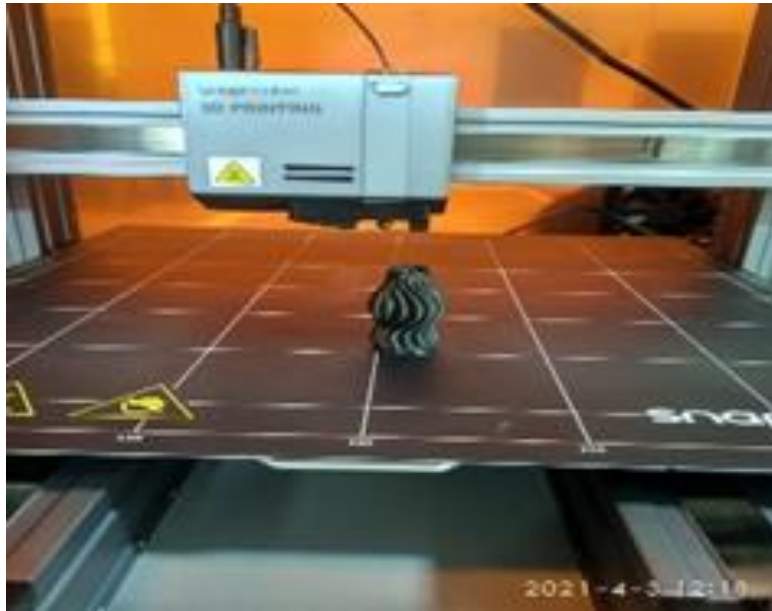
Product Design Lab



CAD Lab



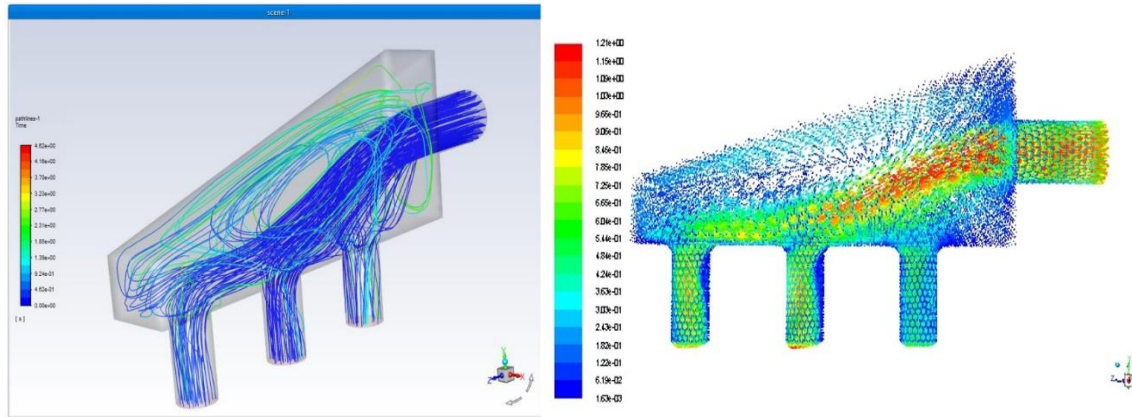
Additive Manufacturing Lab



CNC Lab



CFD Lab



Path line of fluid particle and velocity vector in an Air Manifold. Results are obtained from ANSYS simulation

Auto- Mantra , a club for studens to explore in automobile

