





GEO TAGGED PHOTOS OF LABORATORIES OF MECHANICAL ENGINEERING DEPARTMENT







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1. MACHINE TOOLS LAB



Fig.1 Entrance of Machine tool Lab

Drives and controls are responsible to provide and regulate the motions of the machine tool components. Machine Tools Laboratory is aimed at providing an introduction to the Knowhow of common processes used in industries for manufacturing parts by removal of material in a controlled manner. Auxiliary methods for machining to desired accuracy is covered Evidently, acquaintance with the machine is desirable and the laboratory sessions will provide adequate opportunity for this.



Fig.2 Machine tool Lab

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2. FLUID MECHANICS& HYDRAULIC MACHINARY LAB



Fig.3 Entrance of FM& HM Lab

The main objectives of this lab are to demonstrate the applications of theories of basic fluid mechanics and hydraulic machines and to provide a more intuitive and physical understanding of the theory.



Fig.4 :FM& HM Lab

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3. BASIC MECHANICAL WORKSHOP



Fig.5 Entrance of basic mechanical workshop

The Workshop is designed to enable the student to familiarize various tools, measuring devices, practices and different methods of manufacturing processes employed in industry for fabricating components. Students will be introduced to a team working environment where they develop the necessary skills for planning, preparing and executing an engineering project.



Fig.6 Basic mechanical workshop

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4. THERMAL ENGINEERING LAB-I



Fig.7 Entrance of Thermal Engineering Lab I

In this laboratory, students will have the opportunity to study the working principle of IC engines (both SI and CI engines), performance and characteristics in terms of heat balancing, economical speed variations, air fuel ratio influence on the engine to reinforce classroom theory by having the student perform required tests, analyze subsequent data, and present the results in a professionally prepared report.



Fig.8 Thermal Engineering Lab I

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5. THERMAL ENGINEERING LAB-II

Thermal Engineering Laboratory-II trains the students with the principles and operation of thermal Engineering equipment. The different modes of heat transfer like Conduction, Convection and Radiation phenomenon are studied with the help of the experiments and equipment available in the laboratory which are used in real-time engineering applications.



Fig.9 Thermal Engineering Lab II

6. MATERIAL TESTING LAB



Fig. 10 Entrance of Thermal Engineering Lab II

The Material Testing Laboratory course is designed for determine and measure the characteristics of materials, such as hardness, Tension, compression, impact, shearing. This lab introduces the students with the theory and methods for conducting experimental work in the laboratory to make them capable of selecting materials for different requirements in the field of Engineering.

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Fig.11: Material testing Lab

7. CNC MACHINE LAB



Fig.12 Entrance of CNC Lab

CNC stands for computer numerical control. It is a machine controlled by a computer. Its external appearance is similar to that of a NC machine. Tape or Computer Keyboard or Tutor Keyboard is used as input media for CNC machines. Here we are using bench type CNC equipment.

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Fig.13 CNC Lab

8. MECHANICAL ENGINEERING LAB



Fig.14 Entrance of Mechanical Engineering Lab

The lab is intended to enable the students to get an exposure to equipment and exercises related to machine dynamics, cutting forces in milling machine, basics of pneumatic and hydraulic devices, basic concepts of stepper motors, basic ideas of data acquisition systems and automation.

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Fig.15 Mechanical Engineering Lab

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