

CENTRAL WORKSHOP



INTRODUCTION

- Workshop is a central facility for imparting training to the B.Tech. students of Mechanical, Electrical, Civil, Chemical and Architecture in various shops
- Training is also imparted to Mechanical Engg. students in the subject of Manufacturing Process I & II.
- Facility of workshop being utilized by UG, PG & Ph.D students of all departments/centres for fabrications of their projects.
- Workshop facility being extend to students on Saturday and Sunday for fabricate their projects.
- Students fabricate their projects for NIMBUS & various Technical Festivals.
- Shops are well equipped with latest tools, equipments and machineries for carrying out research work at M.Tech and Ph.D level in the area of Manufacturing Engineering with specialization in Metal Cutting and Casting.

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Research Contribution by Dr. P.K. Sood, Assistant Professor

National Journals	13
International Journals	2
National Conferences	4
Conferences/ STCs Attended	30
Conferences/ STCs Organized	10

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○ **Central Workshop comprises following shops which are well equipped with latest tools and equipments:**

1. **CNC Shop**
2. **Fitting Shop**
3. **Welding Shop**
4. **Sheet Metal Shop**
5. **Carpentry Shop**
6. **Pattern Making Shop**
7. **Smithy Shop**
8. **Foundry Shop**
9. **Turning Shop**
10. **Machine Shop**
11. **Fabrication Shop**

CNC Shop



Training as well as research work is being carried out for B.Tech. and M. Tech/PhD respectively. The list of Major Machines/Equipments is as follows.

1. CNC Train Master
2. VMC Train Master
3. CNC Turning Centre
4. CNC Machining Centre
5. Computers with AUTO CAD facility

Fitting Shop



Practices as well as projects are undertaken for B.Tech /M.Tech and PhD students. The list of Major Machines/Equipments is as follows.

1. Various types of hands and power operated tools like Jig Saw, Saber Saw, Impact Wrench, Cordless Screw Driver, Tapper, High Speed Cut Off Saw. 28
2. Pedestal Grinder & Bench Grinder
3. Upright Drilling Machine with tapping facility
4. Power Hacksaw Machine
5. Padestal Drilling Machine

Welding Shop



Welding shop is developed keeping in view the requirements of the industry. Practice on latest and traditional welding techniques is also undertaken. The list of Major Machines/Equipments is as follows.

1. Welding Transformers / Welding Machine
2. Plasma Cutting Machine
3. PLC Based Spot cum Projection Welding Machine
4. PLC Based Longitudinal Seam Welding Machine
5. Brazing Machine
6. High & Low Pressure Gas Welding Equipment
7. Drilling and Tapping Machine
8. Bench Grinding Machine
9. Horizontal Metal Cutting Band Saw

Sheet Metal Shop



Practice of different sheet metal operation is carried out by using traditional and modern hand tools and power operated tools. The fabrication of projects is also undertaken by the students. The list of Major Machines/Equipments is as follows.

1. Spinning Lathe
2. Power operated tools like Nibbling & Shearing Machine
3. Power Press
4. Air Compressor facility for Painting
5. Hydraulic Press
6. Toggle Press
7. Riveting, Notching & Punching Machine
8. Edge Bending Machine
9. Burring Machine
10. Sheet Bending Machine
11. Pipe Bending Machine.
12. Foot Operated Shearing Machine.

Carpentry & Pattern Making Shop



Basics of wood working and pattern making are being imparted to the B.Tech students. The traditional as well as advanced (power operated) tools and machine are available for updating the knowledge on the students in this field. The list of Major Machines/Equipments is as follows.

1. Vertical Band Saw Machine
2. Universal Wood Working Machine
3. Pattern Making Lathe.
4. Combined Surface & Thickness Planner.
5. Four Side Planner.
6. Hammer Drill.
7. Chain Saw.
8. Various Power operated tools.
9. Wood Working Lathe Machine.
10. Spindle Molding Machine.

Smithy Shop



Basic knowledge and practice of various smithy and Forging operations is imparted to the B.Tech Students. The list of Major Machines/Equipments is as follows.

1. Open Hearth Furnaces
2. Induction Heating Furnace
3. Pneumatic Power Hammer
4. Spring Hammer
5. High Speed Cut Off Saw
6. Smithy Tool Kit

Foundry Shop



Green Sand Moulding, Molasses Sand Moulding facilities and sand testing facilities are being created to impart practical training to the students of B.Tech and to carryout

M.tech/PhD research work on induction melting furnace by using stir casting. The list of Major Machines/Equipments is as follows.

1. Mini Couple Furnace
2. Oil Fired Tilting Furnace
3. Induction Heating and Melting Furnace
4. Pit Furnace
4. Hydro-Pneumatic Molding Machine
5. Universal Sand Testing Machine
6. Sand Muller & Sand Mixture
7. Permeability Meter
8. Foundry Tool Kit

Turning Shop



All gear head lathe machines with different Specifications, Attachments and accessories Like DRO, Copping, Taper Turing and turret Etc are available for basic training to the B.Tech. students and for major/minor projects and M.Tech/PhD research work . The list of Major Machines/Equipments is as follows.

1. Lathes
2. Production Lathe
3. Drilling Machine

4. Power Hacksaw

5. Pedestal Grinder & Bench Grinder

Machine Shop



Facilities like Milling, Grinding, Gear Hobbing, Shaping, Planing and Slotting To impart practical skills to the B.Tech Students as well as to carry out the research Work are provided. The list of Major Machines/ Equipments is as follows.

1. Universal Milling Machine
2. Ram Turret Milling Machine
3. Radial Drilling Machine
4. Gear Hobbing Machine
5. Shaper / Planner Machines
6. Hydraulic Surface Grinder
7. Universal Tool Cutter & Grinder
8. Slotter Machine

Fabrication Shop

Fabrication shop has been developed to provide extra fabrication facility for major minor projects of the students without disturbing the routine classes. The Fabrication shop being utilized by UG / PG / Ph.d students for fabrication of their major and minor projects.

1. Portable Welding Machine

2. High Speed Cut Off saw
3. Bosch Power Operated Tool Kit
4. Heavy Duty Jig Saw
5. Power Drill
6. Angle grinder
7. Saber saw
8. Hot air gun
9. Shearing Machine