

BITS PILANI, HYDERABAD CAMPUS

Mechanical Engineering Department

CENTRALWORKSHOP



The Central Workshop imparts training to students and caters to the maintenance & fabrication needs of the Institute. Students' training involves training all first degree students through the course "Workshop Practice" by imparting skills in various manufacturing processes like machining, fitting, carpentry, smithy, foundry, sheet metal, electroplating, welding, etc. and two computer oriented exercises, CNC Programming using Pro-E and Master CAM softwares and Manufacturing Simulation using FlexSim software. For B.E. (Mechanical Engineering) and B.E. (Manufacturing Engineering) degree courses, students are also imparted in-depth training in various other courses such as "Production Techniques", "Manufacturing Processes" and "Computer Aided Manufacturing". Apart from routine maintenance and training, the workshop also accepts fabrication jobs concerning the project works of students and also technical support for TBI works.

The workshop housed in 1800 sqm built up area comprises of the following sections: Machine shop, Welding, Electroplating, Fitting, Smithy, Sheet Metal, Carpentry, Foundry, Metrology & CAM Lab. Major equipment include Vertical Machining Center (Bridgeport VMC GX600), 9 Lathes, 2 Shapers, 1 Radial Drilling Machine, 1 Universal Milling Machine with indexing attachment, 1 Cylindrical Grinding Machine with internal grinding attachment, 1 Tool and Cutter Grinder, 1 Pedestal Grinder, 1 Surface Grinder (HMT make), 1 Slotting Machine, 1 Open-Hearth Furnace for Smithy, 1 Gas-Fired Furnace for Foundry, 5 Wood-Working Lathes, 2 Arc-Welding equipment (1 Rectifier & 1 DC Welding Generator), 1 Oxy-Acetylene gas welding equipment, 1 Gauge Planner for wood works, Electroplating setup for zinc coating, Power Hacksaw and Metrology instruments. In addition, 1 CNC Lathe (HMT make), 1 Wire-cut EDM, 1 Hydraulic Press with 40 ton capacity and 1 TIG Welding equipment will be procured by Feb 2014.



CAM Lab



Advanced Machining Lab



FMS Lab



Metal Forming Lab



Welding



Metrology



Fitting



Carpentry



Lathe



Machine Shop



Smithy



Foundry Lab



Grinding



Foundry

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