

BITS PILANI, HYDERABAD CAMPUS

Mechanical Engineering Department

CAM Lab

(Computer Aided Manufacturing)

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CAM Lab is the one of the largest division of Workshop established in the year 2008. It has the machineries and facilities to cater the needs of undergraduate and post graduate students as well as for Ph. D. scholars to carryout research in the field of Manufacturing Engineering. It provides infrastructure facilities for conducting laboratory courses in interdisciplinary areas, carrying out undergraduate project works and consultancy works. Over the years, CAM Lab facilities have been used by research scholars from various departments, and industries extensively.

Reducing costs and creating innovative products are major challenges facing manufacturers today. In modern CNC systems, end-to-end component design is highly automated using computer-aided design and computer-aided manufacturing (CAM) programs. The programs produce a computer file that is interpreted to extract the commands needed to operate a particular machine via a postprocessor, and then loaded into the CNC machines for production.

In Computer Aided Manufacturing (CAM) Lab, different jobs are accomplished with the help of sophisticated machinery and software. The software is very useful to an engineering student. Students are required to design and manufacture different types of objects.

EQUIPMENT

1. HMT PRAGA CNC Lathe Model PTC 200 with control system FANUC OI
2. BRIDGEPORT (HARDING) CNC Milling Machine GX 600 with control system FANUC OIMD
3. M TAB CNC Trainer Lathe

S.No.	Particulars	Qty
1	CPU Intel core 2 Duo E4600 @2.4 GHz, 2 GB RAM	32
2	CPU Intel core i3-3220, 4 GB DDR- RAM	3
3	HP Desk Jet Printer + HP Scanner +Xerox	1
4	Projector (Logitech) with camera (Panasonic)	1
5	UPS ETN 9145 & ES 500	2
Software		
1	FlexSim Simulation Software	15