

Computer Numeric Control (CNC) Lab (Room 007)

CNC (Computer Numerical Control) technology has revolutionized modern manufacturing by making it faster, more accurate, and efficient. CNC technology is a vital component in the field of mechatronics, which involves the combination of mechanical, electrical, and computer engineering. Digital manufacturing involves using CAD, CAM, and CNC machines which automates machine tool operation and enables the production of complex mechanical components with precision and accuracy.

Jyoti CNC is a leading manufacturer of CNC machines in India, offering a wide range of machines including turning centers, vertical machining centers, horizontal machining centers, and drill tap centers. The company is known for producing high-quality machines that are durable, reliable, and efficient, achieved through the use of state-of-the-art technology and advanced manufacturing processes. This lab has 2 Industrial grade CNC Machines from Jyoti.

DoNC CNC Simulator is a software program that allows users to create, edit, and simulate CNC programs in a virtual environment, without the need for an actual machine tool. The simulator supports a range of CNC machines and provides a user-friendly interface for programming using G-code. The 3D graphics display shows the tool path, workpiece, and cutting process in real-time, allowing users to visualize and adjust the machining process. Overall, DoNC CNC Simulator is a powerful tool that reduces errors and improves productivity by allowing users to test and refine their programs before running them on a real machine.

Lab cost-Rs.52,91,600 /-
Lab Area- 76.68 Sq.m.



Available Resources Hardware and Software:

Lab is equipped with

- 1) Jyoti Make CNC Vertical Machining Center (Milling Machine) Model PX 10 NVW with all standard accessories and electricals.
- 2) Jyoti Make CNC Turning Centre (Lathe Machine) Model DX 200-3A with Fanuc Controller with all standard accessories and electrical.
- 3) Digital Virtual Workshop DoNC Turning and Milling virtual CNC machine simulation (5 Set)



CADEM

Laboratory Pics



Other Activities In Lab

CNC Faculty Training Feb 2019

