FMS Laboratory

Room Number: H 121

Faculty In Charge: Dr. Abdel Majed Hamouda

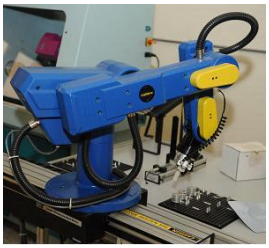
Teaching Assistant In Charge: Eng. Samer Abdel Azim

Thermoplastic 3D printer

UPrint SE 3D Printer allows you to easily create thermoplastic ABS models. The printer uses Fused Deposition Modeling (FDM) Technology to build in real ABSplus thermoplastic, resulting in models and functional prototypes that are durable, stable and accurate.

Category: Auxilliary

Courses: NA



Mechanical Robot Arm

This rugged, vertically articulated robot system offers advanced robotic path control, speed and accuracy. Designed to interface with a wide variety of automated machines, devices and end effectors, it is the perfect robot for FMS and CIM workcells.

Category: Teaching Equipment

Courses: Production Automation, Manufacturing Systems Design

CNC Lathe Machine

It is an fully automated machine that spins a block of material to perform various operations such as cutting, sanding, knurling, drilling, or deformation with tools that are applied to the workpiece to create an object which has symmetry about an axis of rotation.

Category: Teaching Equipment

Courses: Production Automation, Manufacturing Systems Design

FMS/CIM System

The system allows students to explore industrial FMS/CIM applications while learning the smooth integration of the lathe, robot, belt convery, ASRS, and AGV through optimized CNC and robotic programming and accurate machine tending. By developing programs, recording precise robotic positions, accurately machining parts, and synchronizing mill and robot operation, students gain hands-on experience in advanced automation technology

Category: Teaching Equipment

Courses: Production Automation, Manufacturing Systems Design

3D Printer

World's fastest high-definition 3D printers .This machine produces physical 3D models from digital data in full color.

Build Size: 10 x 15 x 8 inches (254 x 381 x 203 mm)

Category: Auxilliary

Courses: NA