



# Vidya Pratishthan's Center of Excellence in Digital Manufacturing and Automation

### Vision:

Endorsing Engineering Skill Sets in Youth and make them Industry Ready by Technical, Ethical and Entrepreneurial ability.

### Mission:

- To create frontiers considering today's and future needs by integrating the Design, Manufacturing and Automation value chain
- To setup CoE in Digital Manufacturing and Automation to provide hand-on experience of industry grade software and industry grade machines
- Achieving skill enhancement of engineering students and hence building their careers and entrepreneurial capabilities in this interdisciplinary domain

### Proposed Activities:

- Skill Development Courses
  - CNC Programming
  - CNC Turning Operating
  - VMC Operating
  - PLC Programming and Wiring
  - Internet of Things (IoT)
  - Robot Programming
  - 3-D Printing
  - CAD/CAM/FMS
- Internship and Projects
- Consultancy
- Entrepreneurship and Startup
- Research and Development

### Broad Areas:

- Robotics
- 3D Printing
- CNC and VMC
- Manufacturing
- PLC Automation

## Software, Equipment, and Machinery

- Computer controller IOT based advance Electro-Pneumatic Trainer
- Collaborative Robot + AI + FMS + Logistic BOT + compressor
- Logistic Bot
- FMS System
- Mechatronics Sensor Trainer Kits with Application
- Siemens PLC S7 -1200 workstation
- Rapid Prototyping Machine
- 3D Printer cum Laser engraver (FDM)
- CNC Machines, VMC Machines
- Portable Surface Roughness Tester

- Industrial Desktop Robot
- Hand-held 3D scanner
- Mini Conveyor Belt System
- Crawler Robot: Robotics Intebot

### Simulation Software:

- SSCNC CNC Simulator Software
- Witness Horizon Simulation Software
- Automation Studio Simulation Software
- RoboDK Simulation Software
- SCADA Software

## Simulation Software

