

# NITEC IN AEROSPACE MACHINING TECHNOLOGY

## Core Modules

### Engineering Drawing & Inspection Techniques

On completion of the module, students should be able to interpret technical drawings and perform dimensional inspections for the machined components in accordance with ISO standards.

### Engineering Process (Turning)

On completion of the module, students should be able to set up and operate centre lathes and CNC lathes to produce components in accordance with given specifications.

### Engineering Process (Milling)

On completion of the module, students should be able to set up and operate conventional milling machines and CNC milling machines to produce components in accordance with given specifications.

### 3D CAD/CAM Applications

On completion of the module, students should be able to interpret engineering drawings, create 3D CAD models and, generate and verify CNC part programs using a CAD/CAM system for CNC lathes and CNC milling machines.

### Aerospace Machining

On completion of the module, students should be able to develop part program for aerospace parts, set up and operate CNC high speed machining centres to manufacture engine and structural aerospace parts and components.

### Multi-Axis Programming & Machining

On completion of the module, students should be able to develop multi-axis part program, set up and operate 5-axis CNC universal machining centres to manufacture components in a single set up for the aerospace and oil & gas industries.

### Industry Attachment

On completion of the module, students should be able to acquire and apply a cluster of key technical, social and methodological competencies in their occupation.