



Designer - Mechanical

QP Code: CSC/Q0405 NSQF LEVEL- 5

Full Curriculum

Module 1: Introduction To CAD/CAM/CAE & Engineering Drawing And Sketching

200 hrs

This month introduces the course's emphasis on the relationship between the teacher and the curriculum. The sessions this month deal with three basic topics. These topics will help to broaden your understanding of curriculum and the ways in which it effects students' experience.

Topics:

- Introduction to connected Lab story
- Introduction to Engineering Drawing and NX software
- NX user interface, Sketching

Module 2: Solid And Surface Modelling, Drafting and Assembly

96 hrs

This month introduces the course's emphasis on Datum, Swept and Hole features, Trim Body and Expressions. We also emphasis on Coordinate systems, Part Navigator, Associative copies and Face and edge operations. In this month last we emphasis on Basic freeform, Assembly Constraints, Component arrays with Drafting, Top down assembly modelling and Synchronous Modelling.

Topics:

- Datum, Swept and Hole features, Trim Body and Expressions
- Coordinate systems, Part Navigator, Associative copies and Face and edge operations
- Basic freeform, Assembly Constraints, Component arrays
- Drafting, Top down assembly modelling and Synchronous Modelling

Module 3: Computer Aided Manufacturing And CAE Analysis

104 hrs

This month introduces the course's emphasis on Program generation and Operation methods. And also emphasis on Introduction to CAE and Managing CAE analysis data, Meshing and mesh quality with Boundary conditions and Linear and nonlinear static analysis.

Topics:

- Program generation and Operation methods
- Introduction to CAE and Managing CAE analysis data
- Meshing and mesh quality with Boundary conditions
- Linear and nonlinear static analysis