Syllabus of CAM

Introduction

- o design to manufacture with CAM
- o The CAM feature tree and CAM Toolbar
- o Define machine parameters
- o Define available tools
- o Define stock

Identifying Features to Machine

- o Automatic feature recognition
- o Interactive feature recognition

Operations and Toolpaths

- o Generate operation plan
- o Generate toolpath
- o Simulate toolpath

Machine Setup and Technology Databases

- o Tool selection
- o Tool crib
- o Machine definition and post processor

Stock and Fixturing

- o Defining the stock
- o Defining the stock from a sketch
- o Defining avoid areas with fixtures

Feature Recognition

- o Setting feature types
- o Setting feature strategy
- o Rebuilding features

Interactive Feature Recognition

- o Adding and deleting features

- Reorganizing features
- Suppressing features
- Inserting features
- Combining features

Operation Plan

- Generating operation plans
- Changing feature strategies
- Adjusting operation parameters
- Defining avoid areas in operation plan
- Combining operations
- Inserting and deleting operations
- Sorting and reorganizing operations

Toolpaths and Post-Processing

- Generating toolpaths
- Simulating toolpaths
- Customizing toolpaths
- Post-processing toolpaths