

Advanced CNC Programming & Mastercam (4 Weeks)

(Fully online session)

COURSE CONTENT

→ CNC Programming:

- Module-1: Introduction to the program, History of CNC Machining
- Module-2: Basic tools, Types of milling tools
- Module-3: Basic of hard keys and soft keys, Basic of using software
- Module-4: Milling machine Axis system Practice, Basic codes of Milling
- Module-5: Milling Program Format, Face milling operation
- Module-6: End milling use, Name writing on the plate
- Module-7: Tool compensation use, Contouring, Pocketing
- Module-8: Drilling Operation, Tapping operation, Polar modes
- Module-9: Introduction to turning process, Types of tools and inserts
- Module-10: Lathe machine Axis system and practice, Codes of turning
- Module-11: Turning Program format, Facing Operation, Rough turning
- Module-12: Grooving operation, Drilling cycle, Tapping cycle
- Module-13: Internal threading, external threading, Boring operation
- Module-14: Project & Simulation

– MASTERCAM Content:

- Module-15: Introduction to manufacturing Pre-Assessment
- Module-16: Introduction to Mastercam draw tools (Line, Circle)
- Module-17: Introduction to Milling Machine
- Module-18: Introduction to Facing operations & End Milling
- Module-19: Introduction to Dynamic Cuttings, Contouring & Pocketing
- Module-20: Introduction to Lathe Machine & Lathe Axis System
- Module-21: Introduction to Roughing, Step Turning, Grooving, External Threading
- Module-22: Introduction to complete processing of Turning

