

Padre Conceição College of Engineering
SMART MANUFACTURING EXCELLENCE (STTP)
5th - 9th December, 2023

Tentative program outline-

Day	Time	Session
Day 1	10.00 AM - 10:30 AM	Introduction and Welcome: Start by welcoming the participants and expressing gratitude for their presence: Principal, Registrar, HOD
	10:45 AM - 12:30 PM	Theory/Software: 1. Introduction to G and M codes (Milling Specific) 2. Manual generation of simple machining programmes 3. Simulation by CADEM Software (Highlight: line by line programme simulation).
	1:30 PM - 3:30 PM	VMC hands on: a) Switching the m/c on and understanding different parts of VMC b) Setting the work piece on VMC c) Understanding different tools and capabilities d) Setting the tools in VMC e) Taking Tool offsets, Work offsets f) Understanding Manual data input to VMC g) Input executable programmed file to VMC from computer h) Actual machining demonstration
Day 2	10:00 AM - 11:00 AM	Automated program generation using Autodesk Powermill-
	11:15 AM - 12:30 PM	Creating executable machining programs by processing 3D model
	1:30 PM - 3:30 PM	Machining of complex geometries on 3-axis machine and demonstration of advanced features available in Powermill
Day 3	10:00 AM - 11:00 AM	Industry expert talk:
	11:15 AM - 12:30 PM	Mr. Rohan Parab (CEO, Mahalaxmi industries)
	1:30 PM - 3:00 PM	Basics of Laser cutting using RD works.
Day 4	10:00 AM – 11:00 AM	Laser cutting hands-on:
	11.15 AM - 12:30 PM	Introduction to 3D printing: Software, slicing, support system
	1:30 PM - 3:00 PM	3D printer setup and printing:
Day 5	10:00 AM - 1:00 PM	Industrial Visit: Visit to Turbocam India Pvt. Ltd.
	2.00 AM - 3.00 PM	Acknowledgment and Gratitude: Express gratitude to the participants for their active engagement, contributions, and time invested in the STTP. Feedback Collection Certificate Distribution Closing Remarks Group Photo