



CENTRAL TOOL ROOM AND TRAINING CENTRE, BHUBANESWAR

Post Diploma in Tool Design & CAD/CAM (PDTD&CC) (NSQF-6)

SYLLABUS

Title of unit or other component	Mandatory/ Optional	Estimated size (Hours)	Level
CNC Programming & CNC Machining	Mandatory	160	6
Computer Aided Design (CAD-Auto CAD/Collab CAD and Solid works)	Mandatory	120	6
Computer Aided manufacturing (Master CAM & Unigraphics CAM)	Mandatory	120	6
Design of Jigs & Fixtures	Mandatory	120	6
Design of Press Tools	Mandatory	160	6
Design of Moulds	Mandatory	160	6
Design of Die Casting Dies	Mandatory	120	6
ENGINEERING METROLOGY AND QUALITY CONTROL	Mandatory	40	6
Advanced-CAD-I (Unigraphics & CATIA)	Mandatory	120	6
Manufacturing Process-process planning and Heat Treatment	Mandatory	40	6
Entrepreneurship	Mandatory	40	6
Course-work: Project	Mandatory	360	6