

NATIONAL WORKSHOP ON CNC PROGRAMMING & TRAINING IN VERTICAL MACHINING CENTRE



DATE : 28.09.2019

ORGANISED BY
DEPARTMENT OF PRODUCTION ENGINEERING
PSG COLLEGE OF TECHNOLOGY
COIMBATORE - 641 004

ABOUT THE COLLEGE

PSG College of Technology, a premier institution for engineering education in India, started in 1951 has developed into a centre for advanced studies and research in several areas of engineering, technology, applied sciences and management. The college is autonomous since 1978 and is ISO certified. The laboratories, workshops and library of the college are all well equipped with modern facilities suitable for learning and research.

ABOUT DEPARTMENT OF PRODUCTION ENGINEERING

As manufacturing activities play a major role in the development of the country, PSG College of Technology envisaged the need for trained manpower in manufacturing and thus the undergraduate programme in Production Engineering was started in the year 1975. Subsequently, department grew in several dimensions of academic excellence with time. Department offers three PG programmes in the area of Manufacturing, Product Design and Digital Manufacturing. All the laboratories of the department are approved for carrying out research, leading to Ph.D Degree (full time and part time) by Anna University, Chennai. The department offers consultancy in manufacturing processes, design and testing a range of products.

OBJECTIVES OF THE WORKSHOP

- To introduce the participants to various CAD/CAM packages available for modelling and simulation and to provide them hands on training using suitable CAM software.
- To train the participants in the basics of CNC programming.
- To demonstrate the working and material removal process in CNC Vertical Machining Centre.

CONVENER

Dr. M. Senthilkumar, HoD i/c

ORGANISING SECRETARIES

Mr. K. Anand
Assistant Professor (Senior Grade)
Mr. S. Pratheesh Kumar
Assistant Professor

COMMUNICATION DETAILS



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COURSE CONTENTS

➤ CAD/CAM BASICS :

- ❖ Introduction to CAD/CAM software and basics of modelling and CAM concepts.
- ❖ Selection of cutting parameters and tool path verification.
- ❖ NC Code generation and simulation of the machining process.

➤ CNC PROGRAMMING :

- ❖ Introduction to CNC machines, co-ordinate systems & machining parameters.
- ❖ Axis nomenclature for milling operation including machine datum & work datum.
- ❖ Programming structure and programming cycles for basic milling operations including tool radius compensation.

➤ HANDS-ON TRAINING:

- ❖ Machine specification and different parts of CNC Vertical Machining Centre.
- ❖ Operating modes in FANUC oi-MD including tool and work piece set up.
- ❖ Tool offset and wear offset definitions.
- ❖ Canned cycle programming and hands-on training incorporating cutter radius and wear rate compensation.



REGISTRATION

Registration fee for students of Engineering Colleges* : Rs. 1,500/- (inclusive of service tax)

Registrations can be made online along with the Demand Draft for registration fee drawn in favour of "PSGCNCE" payable at Coimbatore.

- Registration fee includes workshop kit, course material (CD), certificates, refreshments and working lunch.
- Registrations has to be completed on or before 26/09/2019.

➤ This programme is only for engineering college students and the total number of participants is limited to 30. Accommodation for workshop participants are available in College Hostel on chargeable basis.

HOW TO REACH PSGTECH

PSGTECH campus is located at Peelamedu, Coimbatore. The campus is about 6 km from Coimbatore Railway Junction, 1.2 km from Peelamedu Railway Crossing, 5.4 km from Coimbatore International Air Port, and 4.3 km from Gandhipuram Bus Stand.



SCAN THIS QR CODE FOR ONLINE REGISTRATION

