



Prabodhan Shikshan Prasarak Sanstha's
Rajendra Mane College of Engineering and Technology, Ambav (Devrukh)
Department of Mechanical Engineering

One Day Workshop on
"CNC-Programming and Hands on Experience"

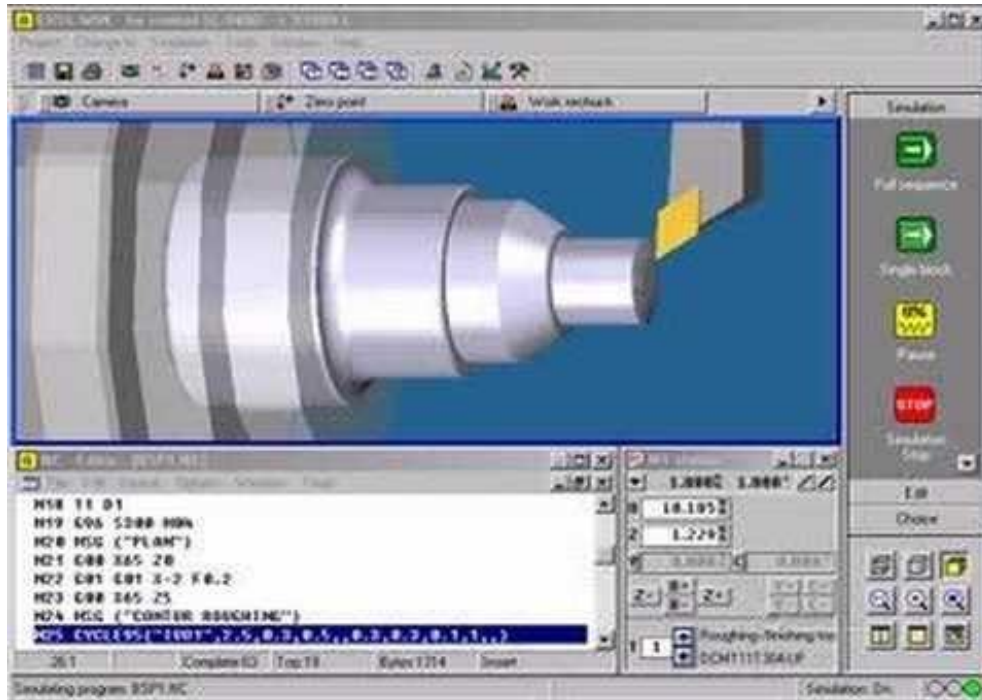
(19/10/2019)

Report

Department of Mechanical Engineering had organized a one day workshop on **"CNC-Programming and Hands on Experience"** for S.E. Mechanical students on 19/10/19. This Course was organized for S. E. Mechanical students. Total 47 students were attended this program. The theoretical session had been covered at our classroom and practical session had been conducted at RMP Mechanical workshop. The practical session was conducted by Mr. Jadhav Priyesh. The main topics covered in the workshop were G and M codes, Programming, and machining on CNC Lathe and Milling. This WS was co-ordinated by Mr. Jagushte G. S.



CNC programming (Computer Numerical Control Programming) is utilised by manufacturers to create programme instructions for computers to control a machine tool. CNC is highly involved in the manufacturing process and improves automation as well as flexibility.



CNC programming Important things to know:-

Coordinate System

Units, incremental or absolute positioning

Coordinates: X,Y,Z

Feed rate and spindle speed

Coolant Control: On/Off, Flood, Mist

Tool Control: Tool and tool parameters

Programming consists of a series of instructions in form of letter codes

G codes- Initial machining setup and establishing operating conditions

N codes- specify program line number to executed by the MCU

Axis Codes: X,Y,Z - Used to specify motion of the slide along X, Y, Z direction

Feed and Speed Codes: F and S- Specify feed and spindle speed

Tool codes: T – specify tool number

Miscellaneous codes – M codes For coolant control and other activities

Dr. S. N. Waghmare
HOD Mechanical Engg



PRINCIPAL
Rajendra Mane College of Engineering
& Technology Ambav, Devrukh.
Tal. Sangameshwar Dist. Ratnagiri
Pin : 415804 (Maharashtra)