



A Report of Six Days Workshop on “Role of Automation in Manufacturing: Vertical Machining Centre”

A workshop was organized by Mechanical Engineering department on “Role of Automation in Manufacturing: Vertical Machining Centre” from 25th - 30th March, 2019. The Workshop was sponsored by Gujarat Council on Science & Technology (GUJCOST), Department of Science and Technology (DST), Govt. of Gujarat. Total 62 students had attended this workshop.

OBJECTIVES OF WORKSHOP

- To Bridge the gap between Academic and Industrial Practice regarding Automation in manufacturing.
- To Explore Computer Aided Manufacturing.
- To describe the fundamentals of CNC Part Programming, various processes related to Automation, applications and implications.
- To make the participants aware about the concept, Manufacturing of components, Part Programming of parts and manufacturing on VMC Machine.
- To provide experience to the participants making the topic clearer.

Day-1

- Prof. Nilesh V. Rana, delivered expert speech on Fundamentals of NC Part Programming.
- Prof. Ripal C. Patel explained and demonstrate the various function of VMC machine.

Day-2

- Prof. Nilesh V. Rana, delivered expert speech on various codes and structure of Part Programming
- Prof. Ripal C. Patel explained and demonstrate the writing a part programming in VMC machine.

Day-3

- Dr. D. I. Lalwani, Associate professor, SVNIT, Surat, delivered expert speech on Role of Automation in CNC Machine.

Day-4

- Prof. Ripal C. Patel, delivered expert speech on contour milling operation in Part Programming



SITARAMBHAI NARANJI PATEL

INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE, UMRKHAH

A Vidyabharti Trust Institution
Vidyabharti Campus, At. Ta. Bardoli, Dist. Surat-394345
Ph.02622-224581, 220581 Fax : 02622-227481,225458
Email : admin@snpitrc.ac.in, vbtdegree_umrakh@yahoo.co.in
Visit us on : www.snpitrc.ac.in

- Mr. Chintan Panchal (Technical Expert, Jyoti- CNC, Rajkot) explained and demonstrate the contour milling operation in VMC machine.

Day-5

- Prof. Ripal C. Patel, delivered expert speech on mirror, chamfer and fillet operation in Part Programming
- Mr. Chintan Panchal (Technical Expert, Jyoti- CNC, Rajkot) explained and demonstrate the mirror, chamfer and fillet operation in VMC machine.

Day-6

- Prof. Ripal C. Patel and Prof. Nilesh Rana, Conducted MCQ test of participants.
- Valedictory program.





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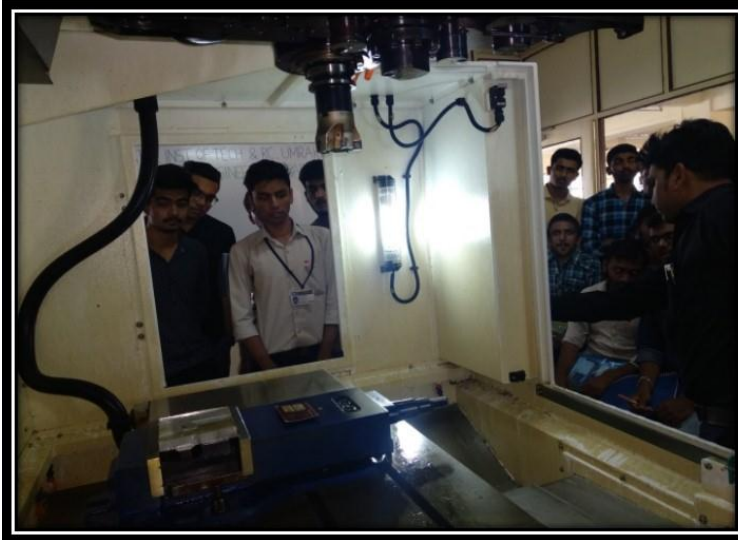




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