



MECHANICAL ENGINEERING DEPARTMENT

A Report on

One Day “Hands-on Workshop on Vertical Machining Centre (VMC PX-20)”

OBJECTIVES OF THE PROGRAMME:

The Purpose of the workshop to understand the fundamentals of CNC part programming and Operation on VMC (Vertical Machining Centre) machine.

- 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 more clear.

EXPERT SPEAKERS:

1. Mr. Ripal C. Patel : Assistant Professor (Mechanical Engineering Department, S. N. Patel Institute of Technology & Research Centre, Umrakh.)

PARTICIPANT DETAILS: ANNEXURE-I

Total 22 Participants had participated from final year students.

OUTCOME OF THE WORKSHOP:

1. The workshop was divided in three session:
 - a. : Introduction machine setup.
 - b. : part programing and Hands on practice on VMC PX-20.
 - c. : Friction stir welding on VMC PX-20
2. Mr. Ripal C. Patel explained basics of part program, how to write part program in VMC machine, set up of tool and work-piece and operation of VMC machine by the participants. .

The sessions were interactive and the speaker answered the queries of the participants in best possible manner.

WORKSHOP INVITATION: ANNEXURE II

WORKSHOP SCHEDULE : ANNEXURE III

WORKSHOP PHOTOGRAPHS : ANNEXURE IV

WORKSHOP BANNER : ANNEXURE V

WORKSHOP CERTIFICATES AND PARTICIPANT FEEDBACKS: ANNEXURE VI



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PARTICIPANT DETAILS: ANNEXURE-I

Sr.	Enrollment No.	Name of Student
1	146160319017	HILALI MOHAMADFAIZALBIN NASAR
2	146160319044	VIVEKSAGAR P PATEL
3	166160319005	BARDE GUNVANTBHAI JANYABHAI
4	166160319006	JAY ASHOKBHAI BHANDARI
5	166160319013	GANVIT MAYANK NANUBHAI
6	166160319019	MAHLA SAPNILBHAI RAMESHBHAI
7	166160319044	PAWAR SACHINBHAI MOHANBHAI
8	176160319002	BHIL ANKESH BHAI
9	176160319004	GOHIL JAY SANJAY
10	176160319009	ELISH B. MODI
11	176160319010	MORE PRABHAT GHANSHYAM BHAI
12	176160319017	DEEP KARSANBHAI PATEL
13	176160319019	PATEL DIVYESHBHAI SHAILESHBHAI
14	176160319021	PATEL HIRLA Y HARISHBHAI
15	176160319023	PATEL JEET MANSUKHBHAI
16	176160319025	PATEL KIRTI ASHOKBHAI
17	176160319033	PATEL SURAJ
18	176160319043	SHAIKH AYAZ FAIZAN
19	176160319044	AMIT BHAGWAN SHARMA
20	176160319046	SOLANKI BHAUTIKKUMAR
21	176160319051	YADAV ABHAY AJIT
22	176160329024	KARANBHAI KANTILAL PATEL



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ANNEXURE III WORKSHOP SCHEDULE

Time	Session	Location
9:30 to 10:00 am	Registration & Breakfast + Tea	Ground floor – Workshop Building
10:00 to 10:30am	Inaugural	Workshop Seminar Hall
10:30 to 12:00 pm	Introduction to Machine Set-up	Workshop Seminar Hall
12:00 to 1:00 pm	Lunch	Ground floor – Workshop Building
1:00 to 3:0 pm	Part-Programing and Machining on VMC PX-20	VMC Lab
3:00 to 3:15pm	Tea Break	Ground floor – Workshop Building
3:15 to 4:30pm	Friction Stir Welding on VMC PX-20	VMC Lab
4:30 to 5:00 pm	Valedictory	Workshop Seminar Hall



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ANNEXURE IV- PHOTOGRAPHS

Session: 1 Inaugural & Theory Session





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Session 2 Hands on practice on VMC PX-20





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Session 3 Friction Stir Welding on VMC PX-20





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ANNEXURE V WORKSHOP BANNER

S. N. Patel Institute of Technology & Research Centre, Umrakh
(A Vidyabharti Trust Institution)



MECHANICAL ENGINEERING DEPARTMENT

Organizes

Workshop

on

VERTICAL
MACHINING CENTER



Vidyabharti Campus, At & Po Baben, Ta: Bardoli, Dist: Surat, Pin: 394601



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WORKSHOP CERTIFICATES AND PARTICIPANT FEEDBACKS: ANNEXURE VI

A. MOMENTO & CERTIFICATE DISTRIBUTION





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B. FEEDBACK BY PARTICIPANTS





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PARTICIPANTS CERTIFICATES

 **S. N. Patel Institute of Technology & Research Centre**
(A Vidyabharti Trust Institution)

Certificate of Participation

This is to certify that

Mr. /Ms. _____

has participated in

One Day **Workshop** on

“VERTICAL MACHINING CENTER ”

Organized by **Mechanical Engineering Department**
held at **S. N. Patel Institute of Technology & Research Centre, Umrakh.**
on **10th February 2020**

Dr. Piyush S. Jain Principal SNPIT&RC, UMRAKH	Prof. Vishal Z. Dhimmar Coordinator SNPIT&RC, UMRAKH	Prof. Nilesh V. Rana Coordinator SNPIT&RC, UMRAKH
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COORDINATOR CERTIFICATES

 **S. N. Patel Institute of Technology & Research Centre**
(A Vidyabharti Trust Institution)

Certificate of Appreciation

This is to certify that

Prof. Vishalkumar Z. Dhimmar

has rendered excellent service as coordinator

One Day **Workshop** on

“VERTICAL MACHINING CENTER ”

Organized by **Mechanical Engineering Department**
held at **S. N. Patel Institute of Technology & Research Centre, Umrakh.**
on **10th February 2020**

Dr. Piyush S. Jain
Principal
SNPIT&RC, UMRAKH