



VEMU INSTITUTE OF TECHNOLOGY

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An ISO 9001:2015 Certified Institution.

Tirupathi – Chittoor Highway, P.Kothakota, Pakala – 517 112.

DEPARTMENT OF MECHANICAL ENGINEERING

VEMU/ME/2020-2021/Technical staff

Date: 01/01/2021

Circular

It is here by informed to all the technical staff of ME that there is a 2 days workshop on “**Alignment Test On Machine Tools**” from **03/01/2021 & 04/01/2021** by **Mr. M Venkatesulu, Associate Professor, Dept. of ME, Vemu institute of Technology, P Kothkota.** Hence all the technical staff are instructed to participate in the workshop without fail.

Venue: Machine Tools Lab.

Time: 9.30 am to 1.00 pm

1.50 pm to 4.00 pm

HOD - ME

HEAD

**DEPARTMENT OF ME
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112**

Copy To: The Principal Desk,

The Staff In-charge,

Circulate among ME Technicians.

N. S. Deval

M. K. Bhatnagar

T. Mohan

S. V. Bhanu Chandra

Raja Shekar

Sai Lokesh

P. Gopi

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DEPARTMENT OF ME
VIT INSTITUTION OF TECHNOLOGY
VIT-010001-010001





VEMU INSTITUTE OF TECHNOLOGY

P. Kotha Kota, Chittoor (Dt.), Andhra Pradesh-517 112.

A TWO DAYS WORKSHOP ON NON-TEACHING STAFF SKILL DEVELOPMENT PROGRAM

ACADEMIC YEAR: 2020-2021

Topic: Alignment Test On Machine Tools

Day & Date	9:30AM to 10:30AM	10:30AM to 12:45PM	12:45PM to 1:45PM	2:00PM to 3:20PM
Day-1 03-01-2021	Inauguration	Basic knowledge on Machine Tools Mr M Venkatesulu Associate Professor Department of ME	BREAK	Alignment Test On Machine Tools
Day-2 04-01-2021	Alignment Test On Machine Tools		BREAK	Alignment Test On Machine Tools


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DEPARTMENT OF MECHANICAL ENGINEERING

Workshop Attendance

Title: Alignment Test On Machine Tools

Date: 03-01-2021 & 04-01-2021

Resource Person: Mr. M.Venkatesulu, Associate Professor, Dept. of ME.

S. No	Name of the Staff	Signature	
		03-01-2021	04-01-2021
1.	N. BALA KRISHNA		
2.	T. MOHAN		
3.	P. GOPI		
4.	D. PRASANTH		
5.	M.K. EAKAMBARAM		
6.	S.V. BHANU CHANDAR		

COORDINATOR(S)

HOD
HEAD

DEPARTMENT OF ME
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112



Department of Mechanical Engineering

REPORT

Work Shop: A Two Days Work Shop On Alignment Test On Machine Tools

Date: 03-01-2021 & 04-01-2021

Resource Person: Mr M Venkatesulu, Associate Professor, Department of ME, Vemu Institute of Technology, P. Kothakota.

Targeted staff: ME Technical staff

OBJECTIVE

Alignment test is as good as the calibration test. Since, the question states a machine tool which is used for machining, finishing of parts, the next question is alignment of all the axes before the starting of setup of the machine to check whether the machine is levelled. The alignment is done to obtain the said accuracy on machining of parts. After the fundamental alignment, every time a part is loaded and setup on the tool, It is tried so that if we check in a dial guage in x, y or z working planes the runout value becomes zero. I hope this helps The following alignment tests are carried on lathe. Levelling of the machine. True running of location cylinder of main spindle. Axial slip of main spindle and true running of shoulder face of spindle nose. ... Parallelism of main spindle to saddle movement.

Alignment test is carried out to check the grade of manufacturing accuracy of the machine tool. It consists of checking the relationship between various machine elements (such as bed, table, spindle etc) when the machine tool is idle and unloaded.

OUT COME

In this workshop we have learning checking of jobs, manufacturing on machine and its tolerance limits as per design.

- Alignment of axis of lathe spindle to saddle movement.
- Manufacturing of job on lathe.

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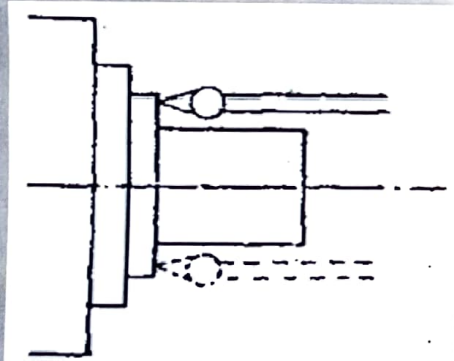
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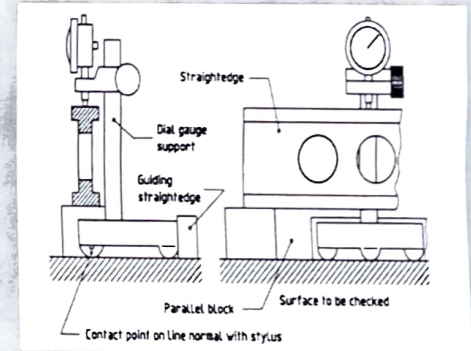
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DEPARTMENT OF MECHANICAL ENGINEERING

Two Days Work Shop On Alignment Test On Machine Tools



Resource Person
M Venkateswarlu
Associate Professor
Dept. of ME
VEMU IT



Venue: Machine Tool Lab

Date: 03rd to 04th June 2021, Timings: 9 AM to 4 PM

Dr K V N V N RAO

H.O.D/ME

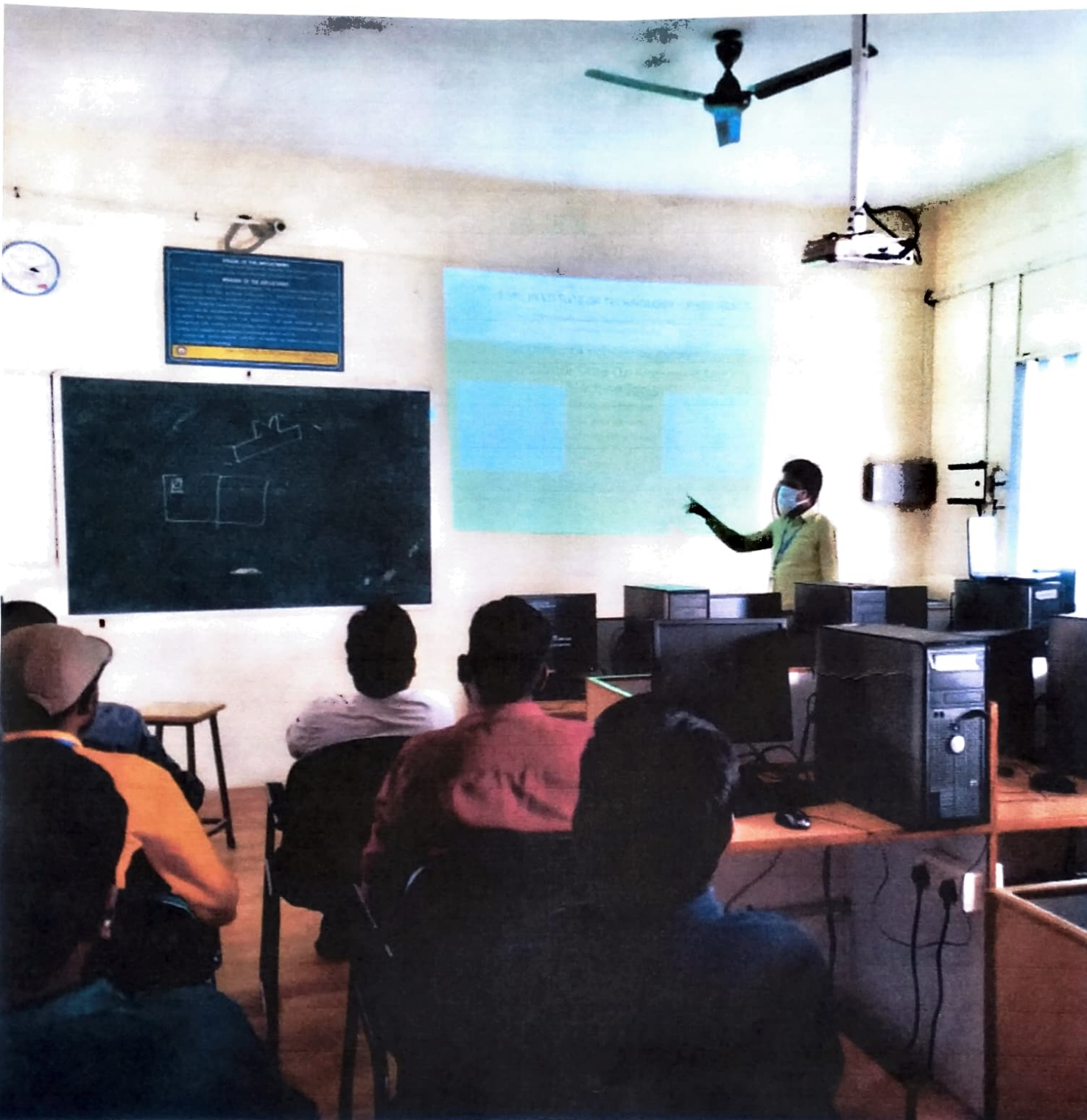
Dr.NAVEEN KILLARI

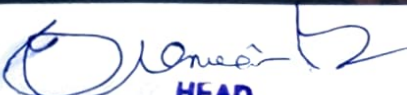
Principal



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CERTIFICATE OF PARTICIPATION

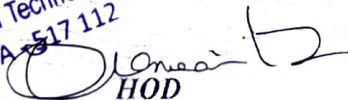
This is to certify that Mr./Mrs./Ms. N. BALA KRISHNA of

VEMU INSTITUTE OF TECHNOLOGY

participated in Two days Work Shop on "Alignment Test on Machine Tools" Organized by the Department of Mechanical Engineering, Vemu Institute of Technology on 03rd & 4th January, 2021


Coordinator


PRINCIPAL
Vemu Institute of Technology
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Principal



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P.Kothakota, Chittoor Dist., A.P. - 517 112.

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Mrs./Ms. T. MOHAN of

VEMU INSTITUTE OF TECHNOLOGY

participated in Two days Work Shop on "Alignment Test on Machine Tools" Organized by the Department of Mechanical Engineering, Vemu Institute of Technology on 03rd & 4th Januaryh, 2021

[Signature]
Co-ordinator

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Principal