



KIT Training Program
on
Condition Monitoring and Maintenance of Workshop



Schedule
May 29-31, 2019
VENUE-TA202 Lab

DAY / TIME	9:00 – 10:30 AM		11:15 – 12:45 NOON		2:00 – 3:15 PM		3:30 – 5:00 PM
29.5.19	Introduction Lecture By Dr. N. Sinha	T E A 10:30 TO 10:45 AM	Overview of TA 202 Lab about all machines	L U N C H 12:45 TO 2:00 PM	Machine Introduction Part I	T E A 3:15 TO 3:30 PM	Introduction of Machine problems, Pre. Maintenance Part I
30.5.19	Conventional Video		Basic Electrical repair		Machine Introduction Part II		Introduction of Machine problems, Pre. Maintenance Part II
31.9.19	Repairing exercise		Machine Introduction Part III		Introduction of Machine problems, Pre. Maintenance Part III		Certificate distribution & Vote of Thanks

All candidates in divide in A, B & C Group

Date	Lathe	Milling & Shaping	D&F
May 29((Part I)	A	B	C
May 30 (Part II)	B	C	A
May 31 (Part III)	C	A	B

A. Working facility and Repair / maintenance.

1. Lathe Machines:

Part A

- 4 jaw chuck, 3 jaw chuck, face plate, spindle and barrel, following rest, Study rest, Coolant pump, taper turning attachment, additional gear train,
- Types of guide and slides with reason
- Power Transmissions: Belt drive, Chain Drive & Gear drive
- Tool geometry of turning tool
- Single point tool vs. Multy point tools.
- Body structure of machine.
- Introduction of measuring & cutting tools
- Thread chasing dial mechanism
- Adjustment of tool height
- Cutting speed / rpm / cutting feed / depth

Part B

- Show the open head stock gear box
- Key slide motion
- Gear shifting mechanism
- Pin shear
- Gear shear
- Belt tilting / change / replace / alignment
- Pulley fixation / alignment / key etc.
- Gear box oil label
- Daily / weekly oiling on slides
- Bearing noising
- Check taper between centre
- Tool grinding

Part C

- Types of fasteners
- Clip , pin, dowel circlips

2. Milling machines:

3. Shaping machine

4. Drilling machines