

LABORATORY WORK SHEET

Name of the Student MADKI SAICHARAN

Class GSM-C Semester IST

Course Code AMEDO2 Course Name Manufacturing Princerics

Princerics

Name of the Course Faculty MY . V. Mabi dihar modely

Exercise Number O7 Week Number 0.7 Date 17 November 2023

DAY TO DAY EVALUATION:

Obtained	A	A	11	X	#	80
Max. Marks	4	4	4	4	4	20
Marks	Am/ Preparation	Performance in the Lab	Calculations and Graphs	Results and Error Analysis	Viva - Voce	Total
		Algorithm / Precedure	Source Code	Program Execution		

Signature of Fapulty

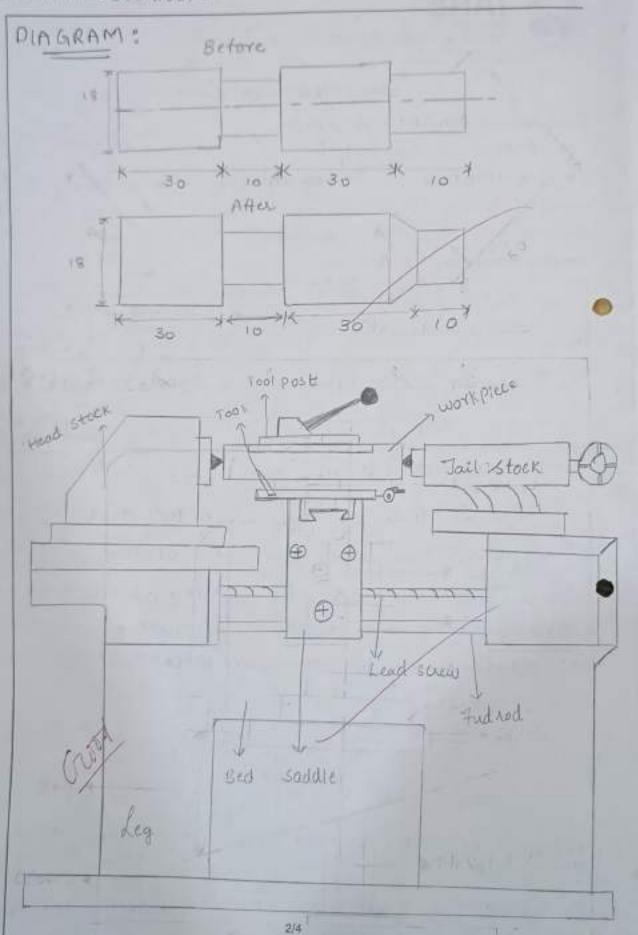
START WRITING FROM HERE: LATHE MACHINE

A lathe machine is a tool that rotated as workpiece about an axis of rotation to perform various operations. Such as cutting, sanding, drilling, Knurlking, deformation, facing and turning with tools that are applied to the workpiece to create Object with Symmetry.

AIM : To perform Step turning and taper turning operations on the given work piece.

MATERIALS REQUIRED: Mild Steel, rod of 20 mm diameter, and 100 mm long.

TOOLS REQUIRED; VERNIER CALLIPER, steel ruler, Spanner, Check spanner, HSS #



Sequence of operations

- -) Facing.
- Drilling
- plain turning
- Grooving
- Knurling
- Threading
- Tapu turning -

Procedure:

- The work piece and Hiss Single point cutting tool one securly held in chuck & tool post respectively.
- 3 operations. Such as facing are performed.
- 3 Replace the single point cutting tool with drilling tool and drilling operations is performed.
- 9 The plain tuning is performed.
- 1 Then the compound rest is survived by calculated half taper angle & taper is generated on the working piece
- © U-cutting tool is replaced by HSS single point tool & grooving operations is performed as per the given dimensions.
- Describing tool is replaced by HSS & Knuling operation is done at Lowest Speed of Spindle.

- 8) Finally, by using single point cutting tool threading operation is done by moving the Carriage forward and backward.
- 9) Taper angle = Tant [D-d].
- 10 Make sure to wear Apron and shoes.
- 1 Wear Gloves while handling sharp objects.
- Be careful while handling the tooks.
- @ DO not touch the machine while

Result:

Step turning and tap turning operations are done on the given work prece-