



LABORATORY WORK SHEET

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Class : CSM-C Semester : IST

Course Code : AME002 Course Name : Manufacturing Practice

Name of the Course Faculty : MY V. Mahidhar reddy Faculty ID : IARE 10333

Exercise Number : 08 Week Number : 08 Date : 24 November 2023

DAY TO DAY EVALUATION:

Marks	Aim / Preparation	Algorithm / Procedure	Source Code	Program Execution	Viva - Voce	Total
		Performance in the Lab	Calculations and Graphs	Results and Error Analysis		
Max. Marks	4	4	4	4	4	20
Obtained	4	4	4	4	4	20

[Signature]
Signature of Faculty

START WRITING FROM HERE :

THREAD CUTTING

Aim : To perform thread cutting and knurling on a circular C.S rod and using the lathe machine so as to obtain the design as per the drawing.

Tools required:

Manufacturing tools : Thread cutting and knurling tool

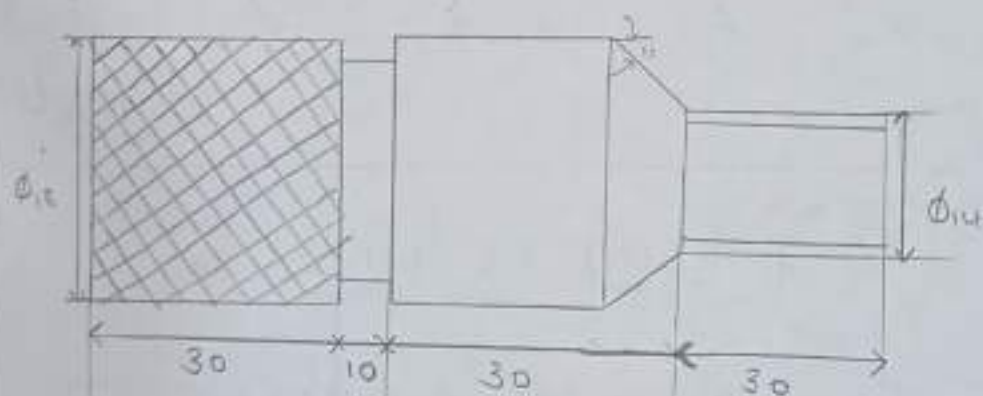
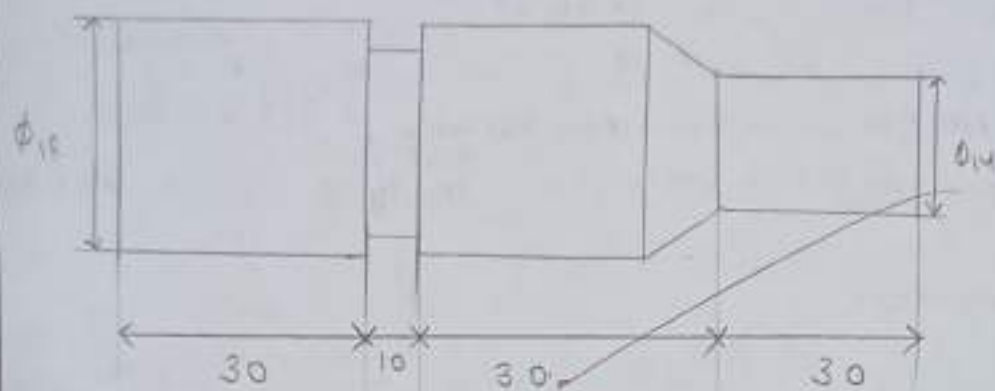
Measuring tools : Vernier callipers & pitch gauge

other tools : Chuck Key, rod post Key and brush.

Materials required: Specimen obtained from the previous experiment on which step $\frac{1}{4}$ taper turning is already performed.

Diagram :

Given work piece



Finished work piece.

(All dimensions are in mm).

Procedure :

- ① Fix the job on the machine by using chuck Key- Turn the job of the required dia by fixing the single point cutting tool.
- ② Chamfer the edge and make an under cut at the other end.
- ③ Engage the lead screw and perform the threading operation.
- ④ stop when the pitch is measured by the pitch gauge.
- ⑤ Reverse the job and hold it carefully so that the threads are not damaged. Disengage the back gear and lead screw.
- ⑥ Hold the knurling tool against the rotating job.

Precautions:

- ① check the machine speed before starting the experiment.
- ② Chuck key must be removed from the chuck before starting the machine.
- ③ Feed should be given gradually.

Result: The workpiece of required dimensions is obtained.

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