



LABORATORY WORK SHEET

Name of the Student MAOKI SAI CHARAN

Class CSM-C Semester Ist

Course Code AMED02 Course Name Manufacturing Practice

Name of the Course Faculty Mrs. V. Mahidhar Reddy

Faculty ID IARE 10333

Exercise Number 05

Week Number 05

Date 03 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 of Faculty

START WRITING FROM HERE :

Aim : plumbing (To prepare a threading on outside of mild steel pipe or pvc Pipe 1" ϕ diameter).

Materials required : Take a 1" ϕ mild steel pipe or pvc Pipe, Internal threads of "T" joint.

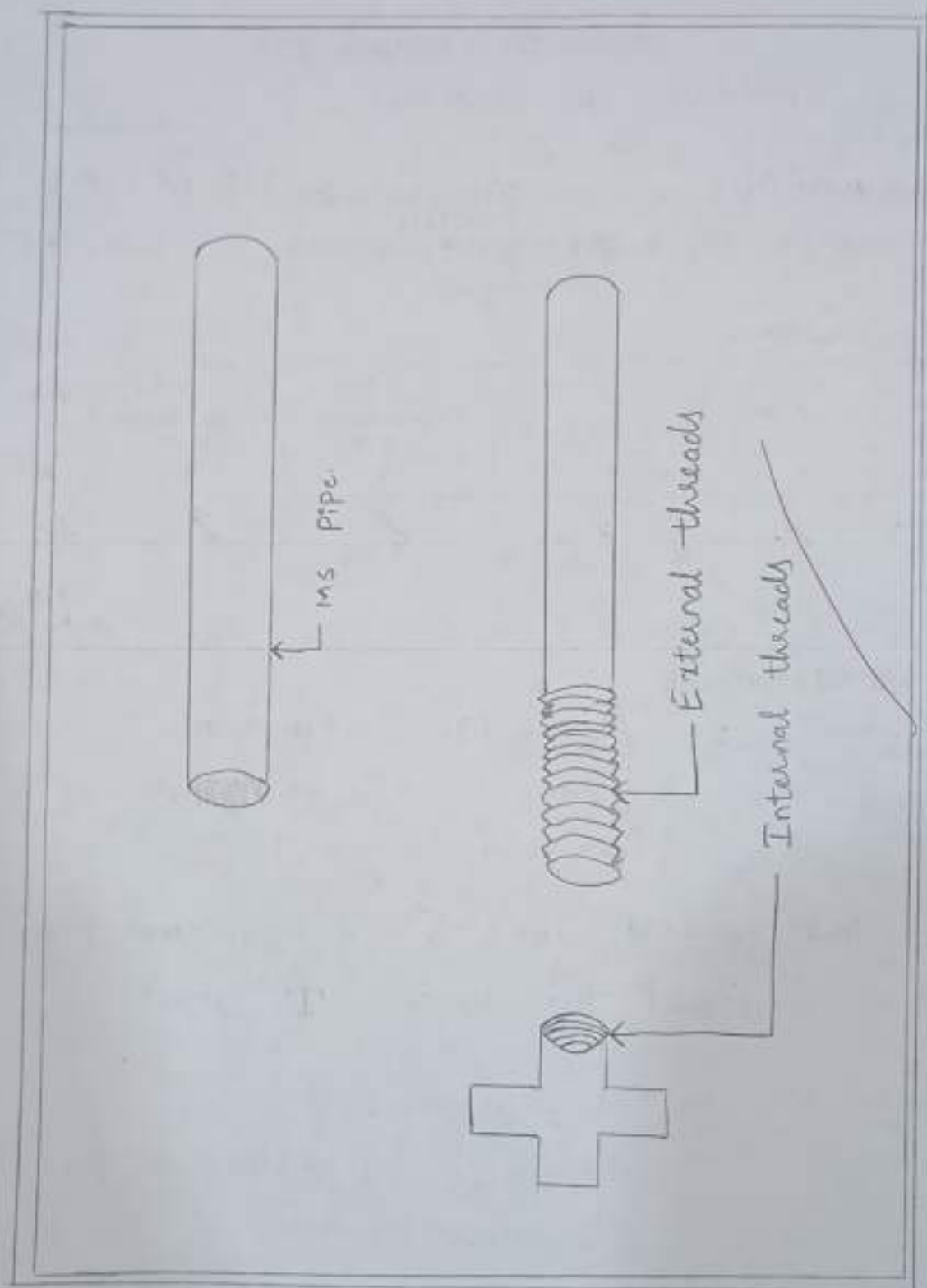
Tools required : 1. Pipe vice.

2. Dies set (Adjustable pipe dies)

3. Pipe wrench.

4. oil (for lubrication)

Diagram :



Sequence of operations:

1. Pipe fitting
2. Threading
3. oiling
4. Finishing.

Procedure:

1. Take a MS Pipe - If any excess metal is present, trim and smoothen the pipe to adjust or fit the length of pipe is vice.
2. Set the pipe vice diameter, with the pipe until there is no movement.
3. Apply threading oil to the end of the pipe and vice pipe to reduce friction while tightening turning the wrench.
4. Start threading, switch on the pipe thread machine and rotate the handle and clockwise direction. By exerting pressure to cut through the pipe wall.
5. Continue until the pipe threads has completely cut through the pipe.
6. Tighten the pipe threader with wrench and rotate in opposite direction. Continue until it reaches end or cut through pipe completely.
7. Remove the MS. pipes from pipe vice.

Safety precautions:

1. Ensure that the area surrounding the pipe is clear without dirt, dust, etc.
2. Before starting the threading process, ensure the die is lubricated with oil.
3. Seal the threaded connections properly to prevent leaks and protect the pipe from (corrosion) corrosion.
4. Use pipe sea salt, Teflon tape or a liquid pipe thread compound for a more reliable seal.
5. Use sand paper to remove any burrs from the metal surface or shape them off with a file.

Result:

The Given MS Pipe and threaded is done