



DEPARTMENT OF MECHANICAL ENGINEERING

VISION

"To incorporate technical & professional skills in Mechanical Engineers to fulfill industrial & social needs".

MISSION

- *To educate, guide, and mentor the students for academic excellence.*
- *To develop technical skills and discipline among the students as per the requirement of the industry.*
- *To impart ethics & social values by arranging social activities*

Subject Name: MANUFACTURING TECHNOLOGY (312313)

Date :-

Assignment No :- 1

Course Outcome: 205.1

Topic Name :- Fundamentals of Lathe and drilling machines

- 1. Explain thread cutting operation on a lathe with neat sketch.***
- 2. Basic parts of lathe machine with their functions.***
- 3. Mechanics of chip formation / types of chips.***
- 4. Classification of lathe machines.***
- 5. Drilling machine operations (any four).***
- 6. Sketch of sensitive drilling machine with functions.***
- 7. Calculate speed, feed, machining time.***

Date of Submission:-

Assign By :- Mr. Rohan Patil



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Subject Name: MANUFACTURING TECHNOLOGY (312313)

Date :-

Assignment No :- 2

Course Outcome: 205.2

Topic Name :- Milling Machines

- 1. Difference between Up-milling and Down-milling.***
- 2. Explain milling operations (plain, face, side, straddle, gang).***
- 3. Types of milling cutters (any four) with sketches.***
- 4. Importance of indexing***
- 5. Classification of indexing methods.***
- 6. Dividing head / universal dividing head.***

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Subject Name: MANUFACTURING TECHNOLOGY (312313)

Date :-

Assignment No :- 3

Course Outcome: 205.3

Topic Name :- Casting processes

- 1. Pattern color coding.***
 - 2. Properties of molding sand.***
 - 3. Centrifugal casting with neat sketch.***
 - 4. Gating system – sketch + functions.***
 - 5. Casting defects, causes and remedies.***
 - 6. Investment casting with neat sketch.***
-

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Subject Name: MANUFACTURING TECHNOLOGY (312313)

Date :-

Assignment No :- 4

Course Outcome: 205.4

Topic Name :- Forming processes

- 1. Open die vs Closed die forging.***
- 2. Upset forging with neat sketch.***
- 3. Rolling process / four-high roll mill.***
- 4. Press operations – blanking, punching, drawing, lancing.***

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Subject Name: MANUFACTURING TECHNOLOGY (312313)

Date :-

Assignment No :- 5

Course Outcome: 205.5

Topic Name :- Metal joining processes

- 1. Oxy-acetylene welding process with neat sketch.***
 - 2. Types of Oxy-acetylene flames.***
 - 3. MIG welding – sketch + advantages + applications.***
 - 4. Classification of welding processes.***
 - 5. Compare brazing and soldering.***
 - 6. Welding defects – causes & remedies.***
 - 7. Soldering process with neat sketch.***
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Date of Submission:-

Assign By :- Mr. Rohan Patil