



VISION

"To excelling the field of technology by creating technocrats with value-based "professionalism."

MISSION

- *To provide technical expertise to fulfill the need to the industry.*
- *To impact ethical values & professional responsibilities.*
- *To achieve excellence in academics.*

FY MECH / AUTO

Subject Name: Manufacturing Technology (312313)

Assignment No: 1

Questions.

1. Explain Give the Classification of Lathe.
2. Draw and Explain the nomenclature of single point cutting tool.
3. Write the principle of Metal Cutting.
4. Differentiate the orthogonal and oblique Cutting.
5. State factors responsible for type of chip formation.
6. Give the classification of drilling machine.
7. Explain different operation that can be perform on drilling machine.
8. What is Tapper Turning operation and describe any one in brief.
9. State principle of Thread Cutting.
10. Find the time required for one complete cut on a work piece of 60 mm diameter and 400 mm long. The cutting speed is 50 m / min and feed is 0.5 mm / rev.
11. Find half taper angle for turning operation on Lathe machine.
Major diameter = 30 mm
Minor diameter = 20 mm
Length of taper = 40 mm



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Subject Name: Manufacturing Technology (312313)

Assignment No: 2

Questions.

1. Explain down meaning with a sketch
2. Give a classification of milling cutter.
3. Classify indexing method.
4. Draw and state the use of any two standard milling cutter.
5. Differentiate between end milling and facing operation.
6. What is universal dividing head and state its function.
7. List the basic part of column and knee type of milling machine. State the function of each part.
8. Write down the detailed a classification of milling machine.



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Assignment No: 3

Questions.

1. State different types of pattern.
2. Different steps in casting processes
3. State any four-color code used on pattern.
4. What Is core and core prints.
5. List different types of allowances provided on pattern. explain shrinkage allowances.
6. Write four required properties of molding sand.
7. Write any four-casting defect and write its causes and remedies.
8. Explain Centrifugal casting with figure.
9. List safety practices to be followed in foundry.
10. Draw the sketch of getting system of casting process and show all the parts on it.



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Assignment No: 4

Questions.

- 1 Define forging
- 2 Differentiate between hot and cold forging
- 3 Give principle of rolling
- 4 Differentiate between open d and closed die forging.
- 5 State principle of rolling with a neat sketch.
- 6 Explain the following forging operations 1) upsetting 2) Bending
- 7 What are the advantages of forging
- 8 What is mean by blanking operation.
- 9 Sketch of combination die.



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Subject Name: Manufacturing Technology (312313)

Assignment No: 5

Questions.

1. How welding processes are classified.
2. Images of welding processes.
3. Differentiate between TIG welding and MIG welding.
4. State advantages and limitations of brazing
5. Write different building defects and their causes in details.
6. Write a neat sketch explain soldering.
7. Explain various oxy acetylene gas flame with neat sketches.