



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.*

SYME

Subject Name: Manufacturing Processes (22446)

Assignment No: 1

Course Outcome: CO404.1

Questions.

1. Explain mechanism of chip formation and type of chips
2. Draw and explain single point cutting tool and tool geometry parameters.
3. What are the principle element of cutting explain them.
4. Give classification specification of lathe machine.
5. Explain basic parts of lathe machine
6. Explain various lathe machine operations
7. Give classification, specification of drilling machine and explain any of them with diagram.
8. Explain various drilling machine operation.



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SYME

Subject Name: Manufacturing Processes (22446)

Assignment No: 2

Course Outcome: CO404.2

Questions.

1. Explain principal working and classification of shaping machine.
2. Explain quick return mechanism
3. Explain various shaping machine operations with diagram.
4. Write classification and specification of slotting machine.
5. Explain basic parts of slotting machine.



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SYME

Subject Name: Manufacturing Processes (22446)

Assignment No: 3

Course Outcome: CO404.3

Questions.

1. Explain basic steps in making patterns and also give materials used for making pattern.
2. Two color coding of pattern and their meaning
3. Explain types of molding methods
4. What are the different elements of gating system.
5. Write down safety precaution in foundry shops
6. Explain construction and working of cupola furnace.
7. What is calendaring and vacuum forming method.
8. Explain of injection molding and blue blow molding process.

Course Coordinator: - Mrs. Priyanka Gurav

Date of Submission: - / /2024



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SYME

Subject Name: Manufacturing Processes (22446)

Assignment No: 4

Course Outcome: CO404.4

Questions.

1. What are the different types of forging method
2. Explain open forging and upset forging
3. Differentiate between open Die and closed Die forging.
4. Explain rolling operation with diagram and also list types and application of rolling mill
5. What is direct and indirect extrusion, list and write advantage, disadvantage and application.
6. Differentiate between hot and cold rolling.

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SYME

Subject Name: Manufacturing Processes (22446)

Assignment No: 5

Course Outcome: CO404.5

Questions.

1. Draw and explain gas welding process and tell different types of welding flames.
2. Explain tungsten inert gas welding process with its advantages and application.
3. Draw and explain resistance welding process with its types.
4. Explain electron beam building process with diagram.
5. What are the different effects in welding process.
6. Differentiate between soldering and brazing process of joining.

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