



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.*

SYAE

Subject Name: MME (22040)

Assignment No: 1

Course Outcome: CO406.1

Questions.

1. Define the term Metrology and state the objectives of metrology.
2. State the precautions which should be take while using the instruments.
3. Explain operational error and observation error.
4. Explain in brief a) Line standard, b) end standard, c) Wavelength standard.
5. Draw a neat sketch of vernier caliper and micro meter screw gauge with finding its least count.
6. State the linear measuring instruments which are use in automobile engineering.
7. Define the tern calibration and gives its types.

Course coordinator:-Mrs. Pushpa Patil

Date of Submission: - / /2024



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Subject Name: MME (22040)

Assignment No: 2

Course Outcome: CO406.2

Questions.

1. Define the term transducer and give the classification of transducers.
2. Explain construction and working of potentiometer.
3. Explain with neat sketch linear variable differential transformer (LVDT).
4. Explain capacitive transducer with neat sketch.
5. Explain with neat sketch construction and working of Bourdon pressure gauge.
6. Explain with neat sketch diaphragm gauge.

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Subject Name: MME (22040)

Assignment No: 3

Course Outcome: CO406.3

Questions.

1. Describe with neat sketch working principle of universal bevel protractor.
2. Explain the working of sine bar with neat sketch.
3. Describe the procedure to measure angles using the given angular measuring instruments.
4. Select suitable angular measurement instrument for the given situation with justification; take any example in automobile.
5. Explain angle dekkor or autocollimator with neat sketch.

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Subject Name: MME (22040)

Assignment No: 4

Course Outcome: CO406.4

Questions.

1. Define.
 - a) Major Diameter
 - b) Minor Diameter
 - c) Effective Diameter
 - d) Pitch
2. Explain with neat sketch working principle of screw thread micrometer.
3. Describe the construction and working of tool maker's microscope.
4. Explain the measurement of tooth thickness by constant chord method and base tangent method.
5. Explain the terms. a) Backlash b) Run out c) Composite d) Concentricity

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Subject Name: MME (22040)

Assignment No: 5

Course Outcome: CO406.5

Questions.

1. Define: a) Parallelism b) Straightness c) Squareness d) Coaxiality
2. Describe the alignment checking procedure for the given automobile components assembly.
3. Describe relevant tests for the given automobile components.
4. Draw a neat sketch of any measuring instrument which is used to measure parallelism in automobile.

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Subject Name: MME (22040)

Assignment No: 6

Course Outcome: CO406.6

Questions.

1. Define the term: a) Quality control b) Quality assurance c) Cost of Quality
2. Explain the concept of Quality circle.
3. Explain the Quality assurance techniques such as TQM, six-sigma, 7 QC tools, Pokayoke, etc.
4. Explain the concept of kaizen 5s and Kanban.
5. Describe ISO9001, ISO18000, and TS16949.

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