

MICROMACHINING LAB (Virtual Lab) (Lab Elective-II)

II Semester

Course Code: 19ME21M3

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Course Outcomes: At the end of the course, the student will be able to

CO1: Describe study pulsed-heating of materials.

CO2: Explain erosion mechanism from Lazarenko's model.

CO3: Identify various process parameters and study the thermal models of EDM.

CO4: Describe laser hardening and spot welding using NdYAG laser system.

CO5: Discuss electrochemical machining process and study the effect of process parameters in electrochemical grinding.

List of Experiments:

1. To study pulsed-heating of materials
2. To study erosion mechanism from Lazarenko's model
3. To study various thermal models for EDM
4. To study the influence of process parameters on the Wire EDM
5. Laser hardening using NdYAG laser system
6. Laser spot welding using NdYAG laser system
7. Study of electrochemical machining process
8. Study the effect of process parameters in electrochemical grinding

WEB REFERENCE: <http://mm-coep.vlabs.ac.in/>