

## Mechanical Engineering Department

| NO. | Experiment  | web site   |
|-----|---|--|
| 1   | Material Response to Microstructural, Mechanical, Thermal and Biological Stimuli Lab (5) Exp. Work As Downloaded Videos | <a href="http://vlab.co.in">vlab.co.in</a><br><a href="http://vlabs.iitb.ac.in">vlabs.iitb.ac.in</a> |
| 2   | Technology Cad (TCAD) Laboratory (5) Exp.   | <a href="http://vlab.co.in">vlab.co.in</a>   |
| 3   | Virtual Lab Of Multiphase Flow (1-4-8) Exp. only work   | <a href="http://vlab.co.in">vlab.co.in</a>   |
| 4   | Virtual Lab On Mine Ventilation (3) Exp.  | <a href="http://vlab.co.in">vlab.co.in</a>   |
| 5   | Mechanisms and Robotics lab (7) Exp.  | <a href="http://vlab.co.in">vlab.co.in</a>   |
| 6   | Plant Metabolic Pathways Virtual Lab (1-4) Exp. only work   | <a href="http://vlab.co.in">vlab.co.in</a>   |
| 7   | Rotating Machinery Fault Simulation Laboratory (9) Exp.   | <a href="http://vlab.co.in">vlab.co.in</a>   |
| 8   | Metal Forming Lab (18) Exp. Works As Videos   | <a href="http://vlab.co.in">vlab.co.in</a><br><a href="http://vlabs.iitb.ac.in">vlabs.iitb.ac.in</a> |
| 9   | Mechanics of Machine Lab (24) Exp.  | <a href="http://vlab.co.in">vlab.co.in</a><br><a href="http://vlabs.iitb.ac.in">vlabs.iitb.ac.in</a> |
| 10  | Machine Dynamics & Vibration Lab (8) Exp.   | <a href="http://vlab.co.in">vlab.co.in</a><br><a href="http://vlabs.iitb.ac.in">vlabs.iitb.ac.in</a> |
| 11  | Vibration and Acoustics Lab (8) Exp.  | <a href="http://vlab.co.in">vlab.co.in</a><br><a href="http://vlabs.iitb.ac.in">vlabs.iitb.ac.in</a> |
| 12  | Micromachining Laboratory (8) Exp.  | <a href="http://vlab.co.in">vlab.co.in</a><br><a href="http://vlabs.iitb.ac.in">vlabs.iitb.ac.in</a> |
| 13  | FAB Lab (8) Exp. only 6 works   | <a href="http://vlab.co.in">vlab.co.in</a><br><a href="http://vlabs.iitb.ac.in">vlabs.iitb.ac.in</a> |

## Mechanical Engineering Department (2)

### Heat and Thermodynamics

| No. | Experiment                          | Web site  |
|-----|-------------------------------------|---|
| 1   | The Study of Phase Change           | <a href="http://htv-au.vlabs.ac.in">/http://htv-au.vlabs.ac.in</a><br><a href="http://vlab.amrita.edu/?sub=1&amp;brch=194">http://vlab.amrita.edu/?sub=1&amp;brch=194</a> |
| 2   | Heat Transfer by Radiation          | <a href="http://htv-au.vlabs.ac.in">/http://htv-au.vlabs.ac.in</a><br><a href="http://vlab.amrita.edu/?sub=1&amp;brch=194">http://vlab.amrita.edu/?sub=1&amp;brch=194</a> |
| 3   | Heat Transfer by Conduction         | <a href="http://htv-au.vlabs.ac.in">/http://htv-au.vlabs.ac.in</a><br><a href="http://vlab.amrita.edu/?sub=1&amp;brch=194">http://vlab.amrita.edu/?sub=1&amp;brch=194</a> |
| 4   | Heat Transfer by Natural Convection | <a href="http://htv-au.vlabs.ac.in">/http://htv-au.vlabs.ac.in</a><br><a href="http://vlab.amrita.edu/?sub=1&amp;brch=194">http://vlab.amrita.edu/?sub=1&amp;brch=194</a> |
| 5   | Newton's Law of Cooling             | <a href="http://htv-au.vlabs.ac.in">/http://htv-au.vlabs.ac.in</a><br><a href="http://vlab.amrita.edu/?sub=1&amp;brch=194">http://vlab.amrita.edu/?sub=1&amp;brch=194</a> |
| 6   | Black Body Radiation                | <a href="http://htv-au.vlabs.ac.in">/http://htv-au.vlabs.ac.in</a><br><a href="http://vlab.amrita.edu/?sub=1&amp;brch=194">http://vlab.amrita.edu/?sub=1&amp;brch=194</a> |
| 7   | Thermo Couple Seebeck Effect        | <a href="http://htv-au.vlabs.ac.in">/http://htv-au.vlabs.ac.in</a><br><a href="http://vlab.amrita.edu/?sub=1&amp;brch=194">http://vlab.amrita.edu/?sub=1&amp;brch=194</a> |
| 8   | Lee's Disc Apparatus                | <a href="http://vlab.amrita.edu/?sub=1&amp;brch=194">http://vlab.amrita.edu/?sub=1&amp;brch=194</a>   |
| 9   | Characteristics of Thermistor       | <a href="http://htv-au.vlabs.ac.in">/http://htv-au.vlabs.ac.in</a>  |

## Mechanical Engineering Department (3)

| <b>No.</b> | <b>Experiment</b>                                  | <b>Web site</b>   |
|------------|--|---|
| 1          | Hand Press assembly                                | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 2          | Hoist Block assembly                               | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 3          | Initial Tension Experiment                         | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 4          | Monorail Trolley assembly                          | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 5          | Pump Assembly                                      | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 6          | Indoor Acoustics                                   | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 7          | Lumped parameter systems                           | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 8          | MATLAB   | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 9          | Sound Level Meter                                  | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 10         | Structural Vibration and Modal Analysis Experiment | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 11         | Vibration Isolation                                | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 12         | Crystalline structures of different materials      | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |
| 13         | Measurements                                       | <a href="https://www.elab.edu.eg">https://www.elab.edu.eg</a> |