**Department of Mechanical Engineering**

Engineering Mechanics Laboratory

2022-2023

| **Sr. No.** | **List of Experiments** | **CO Mapped** |
| --- | --- | --- |
| 1 | Universal force table | CO1 |
| 2 | Support reaction for beam | CO4 |
| 3 | Bell crank lever | CO1,CO4 |
| 4 | Friction | CO4 |
| 5 | Jib crane | CO4 |
| 6 | Collision of bodies | CO5 |
| 7 | Compound pendulum | CO2 |
| 8 | Flywheel. | CO5 |
|  | **Virtual Lab Experiment** |  |
| 1 | Newton second law of motion | CO5 |
| 2 | Elastic & inelastic collision | CO5 |

**Course Outcomes**

| CO1 | Evaluate resultant and moment of a force system |
| --- | --- |
| CO2 | Analyze the concept of kinematics of particle and rigid body. |
| CO3 | Determine center of gravity of wires (rods), lamina and solids |
| CO4 | Analyze applications of equilibrium using free body diagram |
| CO5 | Analyze the dynamic system using D’Alembert, work energy and impulse momentum principle. |

Shilpa Bhambure

EM LAB INCHARGE