



**MOTHER TERESA**  
**INSTITUTE OF SCIENCE & TECHNOLOGY**  
**Permanently Affiliated to JNTUH, Hyderabad**  
Recognition under Section 2(f) & 12 (B) of the UGC Act, 1956  
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SANKETIKA NAGAR, SATHUPALLY – 507303, KHAMMAM Dist., TELANGANA



**Department of Mechanical Engineering**

**KINEMATICS AND DYNAMICS LAB**

**Objectives:**

The objective of the lab is to understand the kinematics and dynamics of mechanical elements such as linkages, gears, cams and learn to design such elements to accomplish desired motions or tasks.

**Outcomes:**

Upon successful completion of this lab, students should be able to:

- Understand types of motion
- Analyze forces and torques of components in linkages
- Understand static and dynamic balance
- Understand forward and inverse kinematics of open-loop mechanisms