ENGINEERING MECHANICS LABORATORY: Room No 128

Faculty Incharge: Dr. A. A. Bage

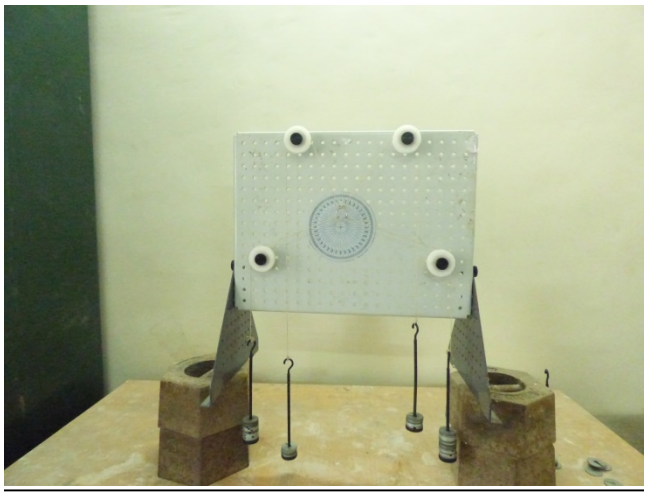
Area: 67.78 m^2

Engineering Mechanics Laboratory provides the students the opportunity to perform experiments and verify laws of mechanics and also to understand the application of the theory covered in the course of Engineering Mechanics. It also helps in proper/better understanding of the theory related to the experiment. New apparatus/equipments have been purchased under TEQIP-II funds.

Facilities available: Jib Crane apparatus, Simply Supported Beam apparatus, Bell Crank apparatus, Polygon Law of Forces apparatus, Friction Plane apparatus.

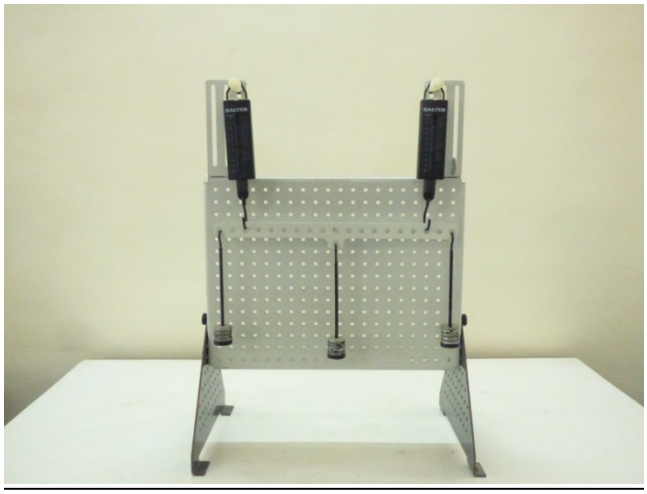
List of experiments conducted:

1) To Verify Polygon Law of Forces(Concurrent Force System)
2) To Verify Lami's Theorem Using Simple Jib Crane
3) To Find Reactions of Simply Supported Beam (Parallel Force System)
4) To Verify Moment Equilibrium Condition Using Bell Crank Lever
5) To Verify Polygon Law of Forces (Equilibrium of Co-planar, Non-concurrent & Non-parallel Force System)
6) To Determine Co-efficient of Friction Using Limiting Equilibrium Method
7) To Determine Co-efficient of Friction Using Angle of Repose Method



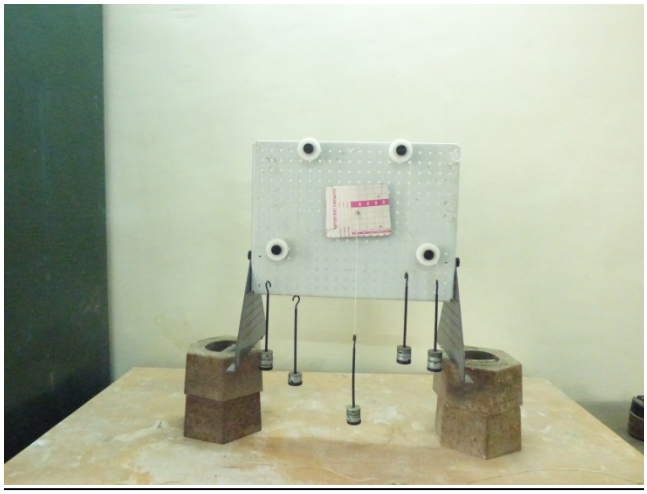
Polygon Law of Forces Apparatus (Concurrent Forces)

Jib Crane Apparatus

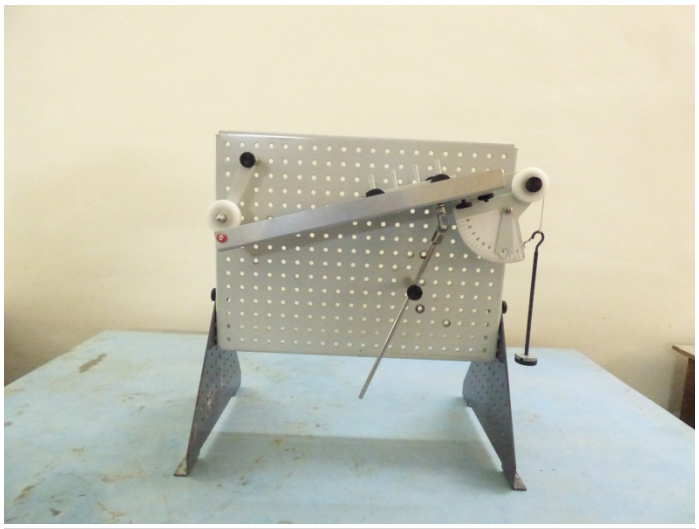


Simply Supported Beam Apparatus

Bell Crank Apparatus



Polygon Law of Forces Apparatus (General System of Forces)



Friction Plane Apparatus