



APPLIED MECHANICS LAB

Courses Covered:

1. CET-121-L-Applied Mechanics

**DEPARTMENT OF CIVIL ENGINEERING
TECHNOLOGY
PUNJAB TIANJIN UNIVERSITY OF TECHNOLOGY,
LAHORE**

Course Title: CET-121-L-Applied Mechanics

List of Experiments:

1. To determine the reaction of the simply supported beam under various loadings.
2. To determine the center of mass of various figures, cut out the wooden plank by experiment & calculations.
3. To determine the forces by method of polygon.
4. To find the tension in various parts of a Hanging rope loaded at various points.
5. To verify the principle of moment.
6. To verify law of friction between solid bodies and to find the coefficient of friction between wood and other materials.

List of Equipment's:

1. Fundamentals of Statics.
2. Forces in Jib Crane.
3. Forces in Simple Bar Structure (Roof Truss).
4. Bearing Friction.
5. Centre of Gravity.
6. Pullies & Block (To be used with Fundamental of Statics).
7. Polygon of Forces Apparatus.
8. Belt and Cord Friction Apparatus.



Forces in Simple Bar Structure (Roof Truss)



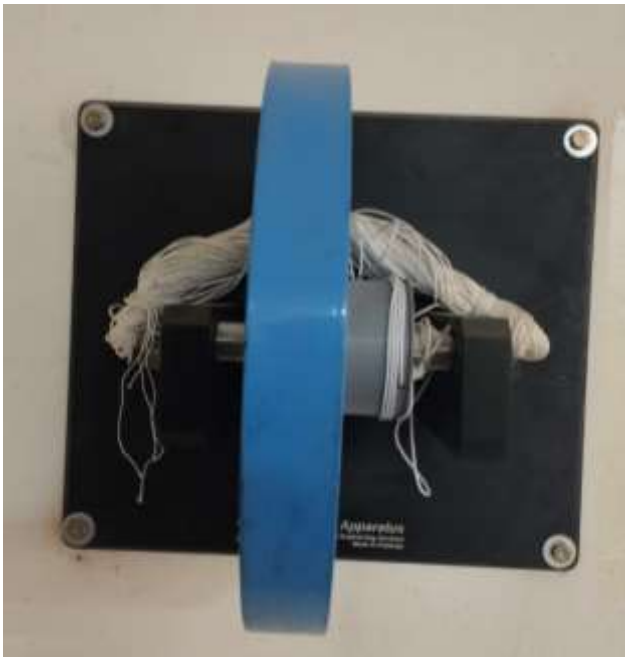
Forces in Jib Crane



Polygon of Forces Apparatus



Centre of Gravity



Bearing Friction



Belt and Cord Friction Apparatus