

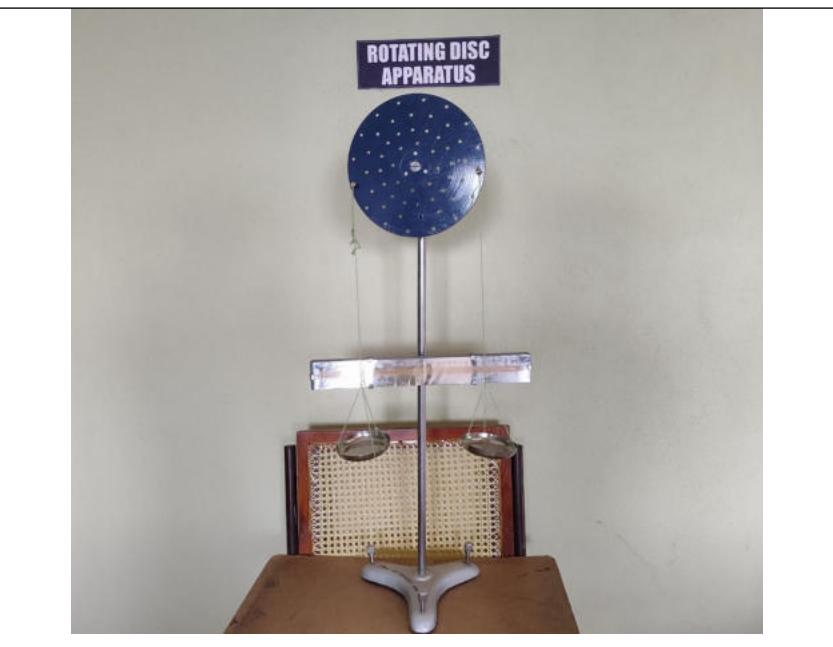
ANNAMACHARYA UNIVERSITY
CIVIL ENGINEERING DEPARTMENT

Name of the Lab: Engineering Mechanics & Building Practice Lab

Name of the Lab in-charge: Mr. B. Raghunatha Reddy

S.No.	Equipment Photo	Name of the Equipment	Specifications	Price
1.	 A photograph of a Pin Jointed Truss Apparatus. It consists of a blue rectangular frame with internal diagonal and horizontal members. Four vertical rods are attached to the top of the frame, each ending in a hanger. A central vertical rod supports a circular dial gauge. The apparatus is mounted on a white rectangular base with a metal frame.	Pin Jointed Truss Apparatus	<ul style="list-style-type: none"> • Loads applied using hangers and slotted weights (range: 0–1 kg each). 	Rs. 42000/-
2.	 A photograph of a Universal Force Table. It features a circular metallic disc mounted on a central vertical axis. The disc is marked with degree gradations from 0° to 360°. Four pulleys are attached to the circumference of the disc, each connected by a cord to a weight hanger. The table is supported by a three-legged base.	Universal Force Table	<ul style="list-style-type: none"> • Smooth circular metallic disc, diameter 400 mm, marked with degree graduations (0°–360°) for precise angle measurement. • 4 low-friction pulleys, adjustable around the table circumference; made of brass or aluminum with hooks for cords. • 4 weight hangers (10–20 g each) with slotted weights (range 10 g–200 g) 	Rs. 10600/-

3.		<p>Parallelogram of Forces Apparatus</p>	<ul style="list-style-type: none"> • Polished wooden drawing board, size approx. 600 mm × 600 mm • Two frictionless pulleys mounted on adjustable clamps at the board edges for smooth string motion. • 3–4 weight hangers (10–20 g each) with slotted weights (range 10 g–200 g). 	Rs. 3100/-
4.		<p>Fly Wheel 20cm</p>	<ul style="list-style-type: none"> • Wheel dia. 20cm • Set of weights (10 g–200 g) • Supported on low-friction ball bearings for smooth rotation 	Rs. 5750/-

5.	 <p>A photograph of a Combined Inclined Plane & Friction Slide Apparatus. It consists of a long, adjustable wooden plane inclined at an angle. A red ball is shown sliding down the incline. A protractor scale is attached to the plane to measure the angle. A stack of weights is visible on the table next to the apparatus. A label on the wall above the plane reads "COMBINED INCLINED PLANE & FRICTION SLIDE APPARATUS".</p>	<p>Combined Inclined Plane & Friction Slide Aparatus</p>	<ul style="list-style-type: none"> • Adjustable wooden plane • protractor scale for angle adjustment • Set of weights (10 g–200 g) for applying tangential load. • Interchangeable plates (e.g., wood, steel, glass, aluminum, rubber) for testing different surface pairs. 	Rs. 6700/-
6.	 <p>A photograph of a Rotating Disc Apparatus. It features a large, blue, circular disc mounted on a vertical shaft. The shaft is supported by a base with a balance scale. The disc has numerous small holes. A label on the wall above the apparatus reads "ROTATING DISC APPARATUS".</p>	<p>Rotating Disc Apparatus</p>	<ul style="list-style-type: none"> • Disc dia 300mm • Stainless steel shaft mounted on low-friction ball bearings for smooth rotation. 	Rs. 6900/-

7.		Center of gravity Apparatus	<ul style="list-style-type: none"> • Rectangular lamina, Triangular lamina, Circular lamina, irregular lamina • Each lamina provided with 3 at various points for suspension 	Rs. 3600/-
8.		Bell Crank Lever Apparatus	<ul style="list-style-type: none"> • Graduated scale • Two hooks provided at each arm end for weight hangers • Steel lever, typically $200\text{ mm} \times 400\text{ mm}$ arms (ratio 1:2), pivoted at the center. 	Rs. 6700/-