ANNAMACHARYA UNIVERSITY

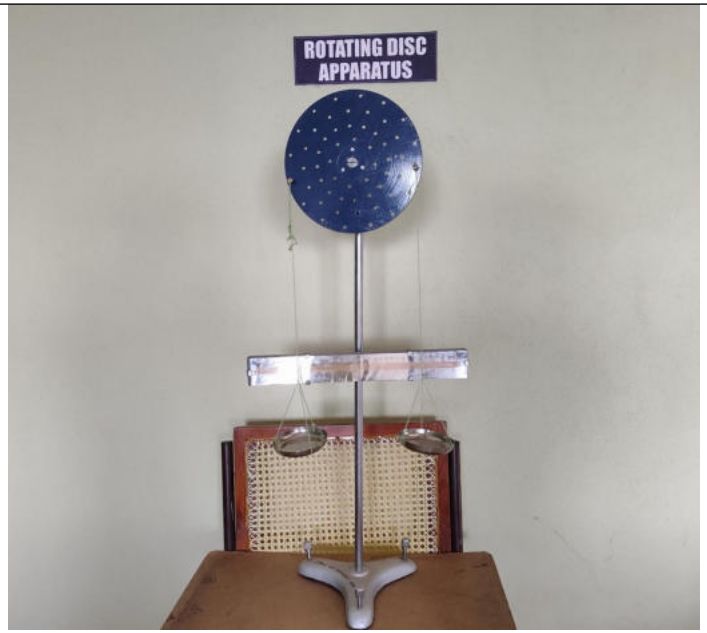
CIVIL ENGINEERING DEPARTMENT

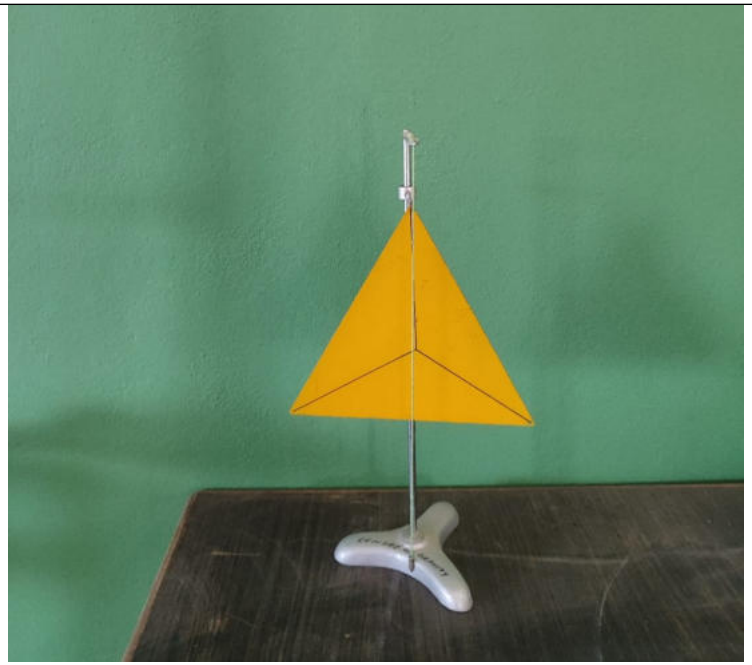
Name of the Lab: Engineering Mechanics & Building Practice Lab

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

S.No.	Equipment Photo	Name of the Equipment	Specifications	Price
1.		Pin Jointed Truss Apparatus	• Loads applied using hangers and slotted weights (range: 0–1 kg each).	**Rs. 42000/-**
2.		Universal Force Table	• 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.		Parallelogram of Forces Apparatus	• 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.		Fly Wheel 20cm	• Wheel dia. 20cm • Set of weights (10 g–200 g) • Supported on low-friction ball bearings for smooth rotation	**Rs. 5750/-**

5.		Combined Inclined Plane & Friction Slide Aparatus	• 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.		Rotating Disc Apparatus	• Disc dia 300mm • Stainless steel shaft mounted on low-friction ball bearings for smooth rotation.	**Rs. 6900/-**

7.		Center of gravity Apparatus	• 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	• Graduated scale • Two hooks provided at each arm end for weight hangers • Steel lever, typically 200 mm × 400 mm arms (ratio 1:2), pivoted at the center.	**Rs. 6700/-**