

MECHANICS OF MATERIALS LABORATORY:

This lab has basic equipment for mechanics of material like bending in straight beams, curved beam etc. It also has torsion apparatus, Universal Testing Machine and Charpy impact tester. Students perform basic experiment of mechanics of material in this lab. This teaching laboratory is equipped with instruments like creep testing machines, fatigue testing machines, torsion testing machine, thin cylinder apparatus, and shearing apparatus. Strain gauges and photo elasticity techniques are used.

UTM (Universal Testing Machines) is used to test the tensile stress and compressive strength of materials. It is named after the fact that it can perform many standard tensile and compression tests on materials, components, and structures.

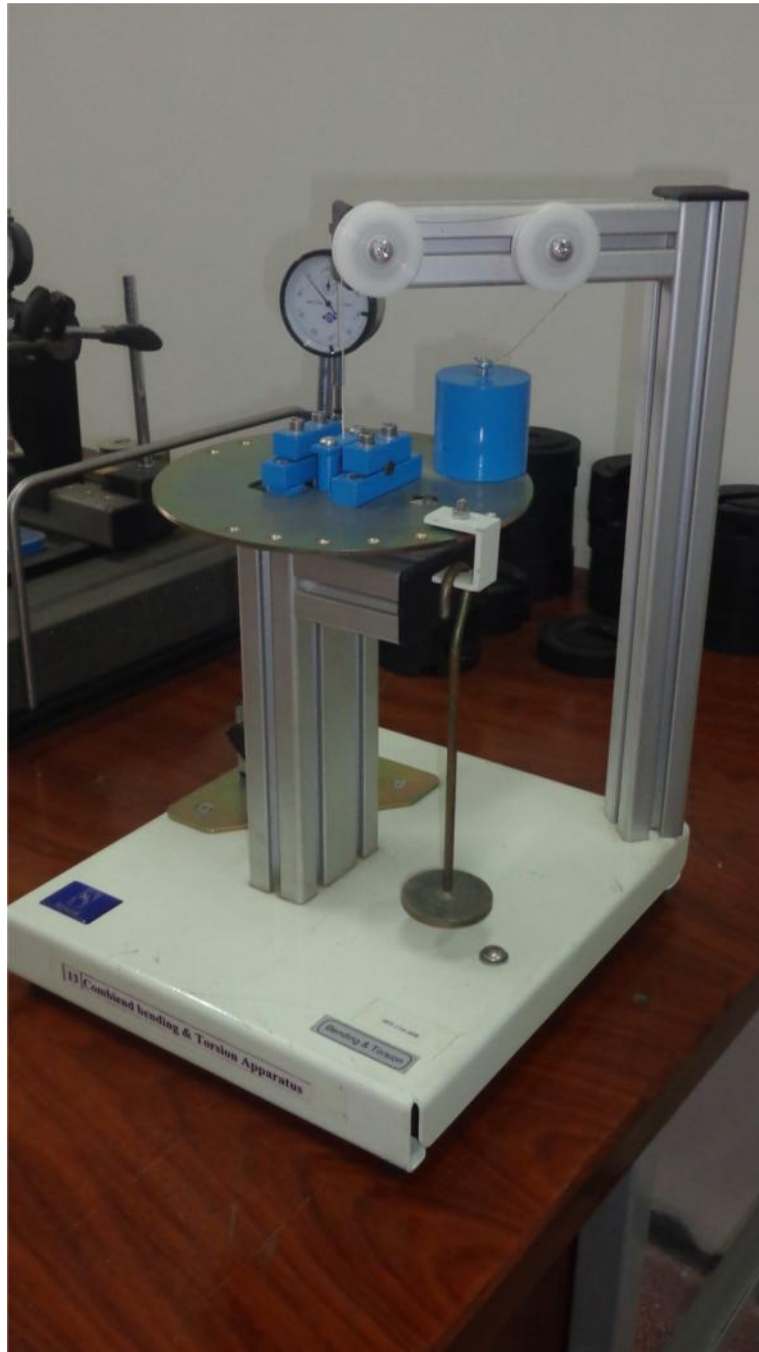
1) COMPOUND WIRE APPRATUS



2) EXTENSION OF WIRE APPARATUS



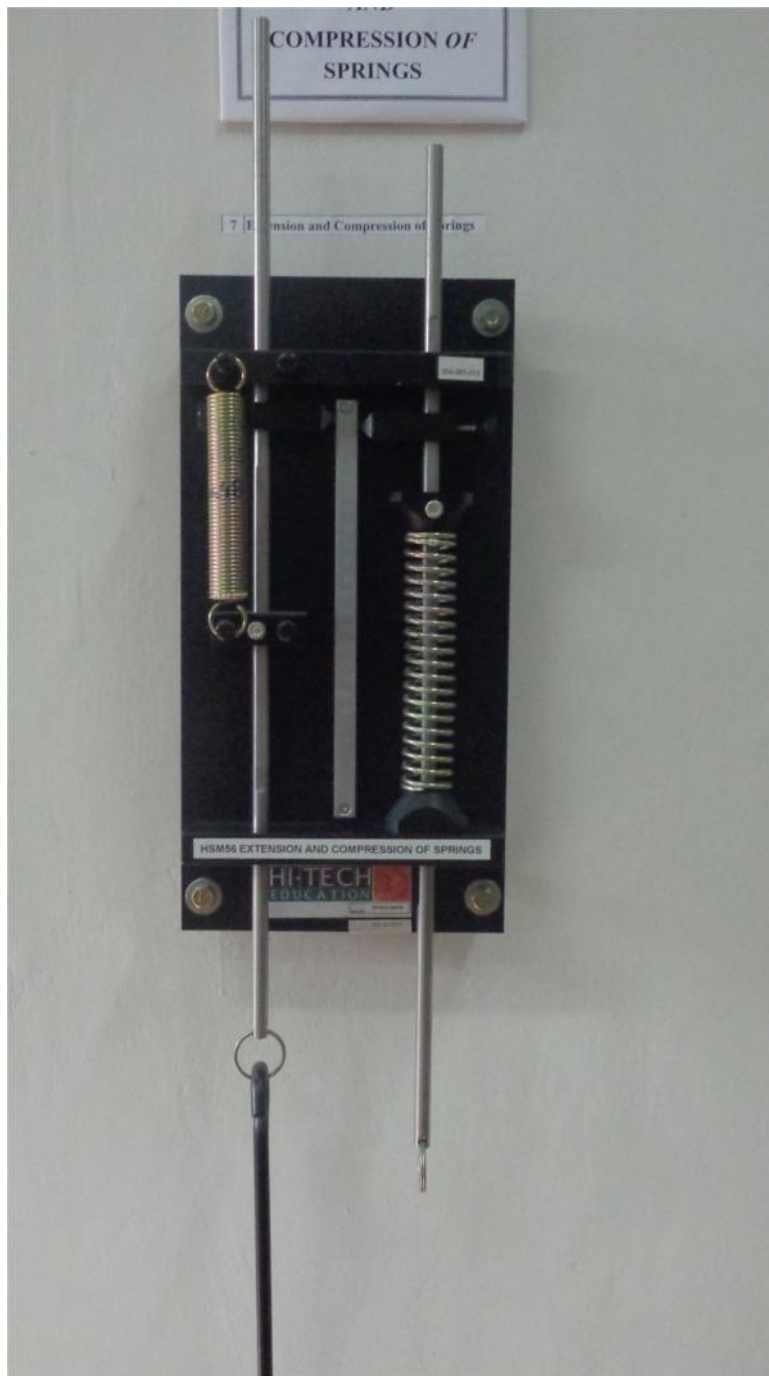
3) Combined Bending & Torsion Apparatus



4) Rubber in Shear Apparatus



5) Extension and Compression of Springs



6) Universal Testing Machine



7)Pendulum Impact Tester



8) Continuous Beam Apparatus



9) Rockwell/ Brinell Hardness Tester



10) Vickers Hardness Tester



11) Strain Gauge Training System



12) Polariscopes



13) Creep Testing Machine



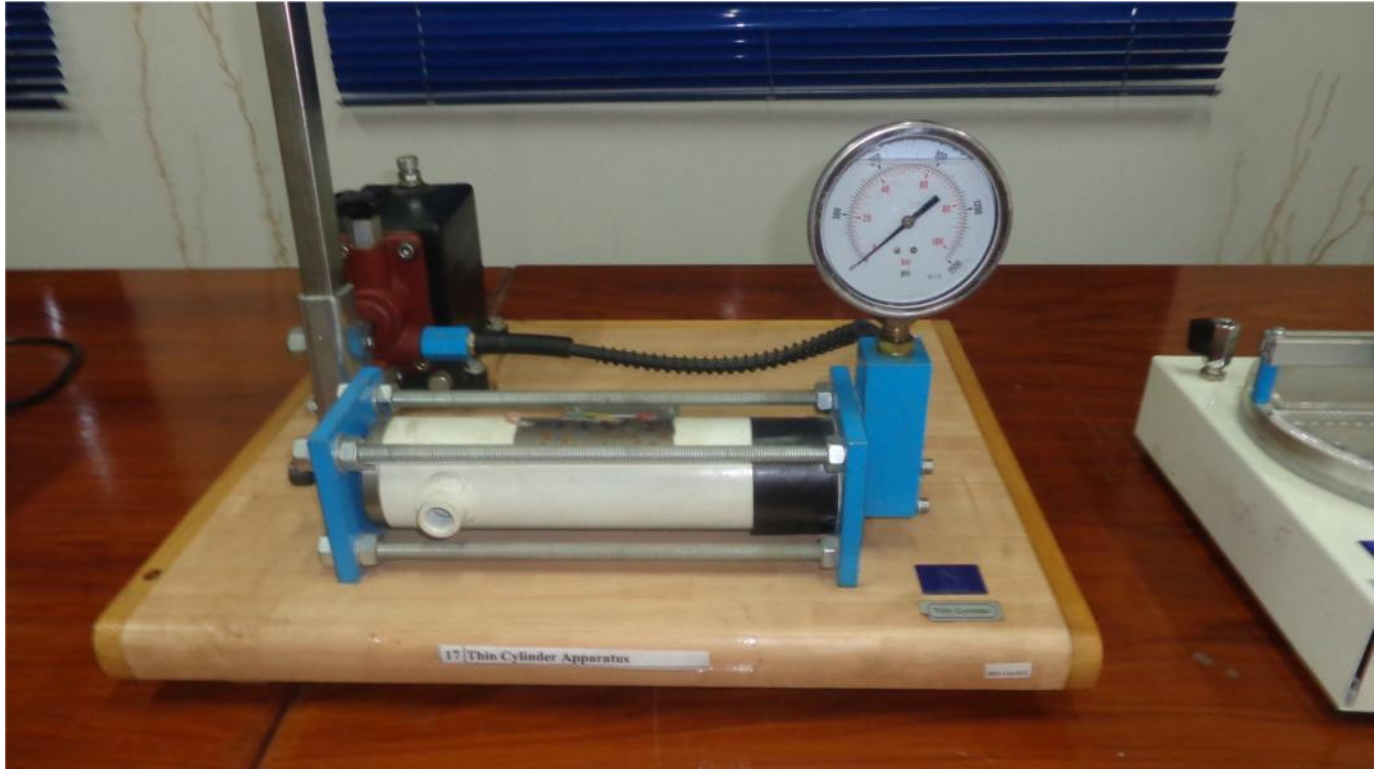
14) Rotating Fatigue Machine



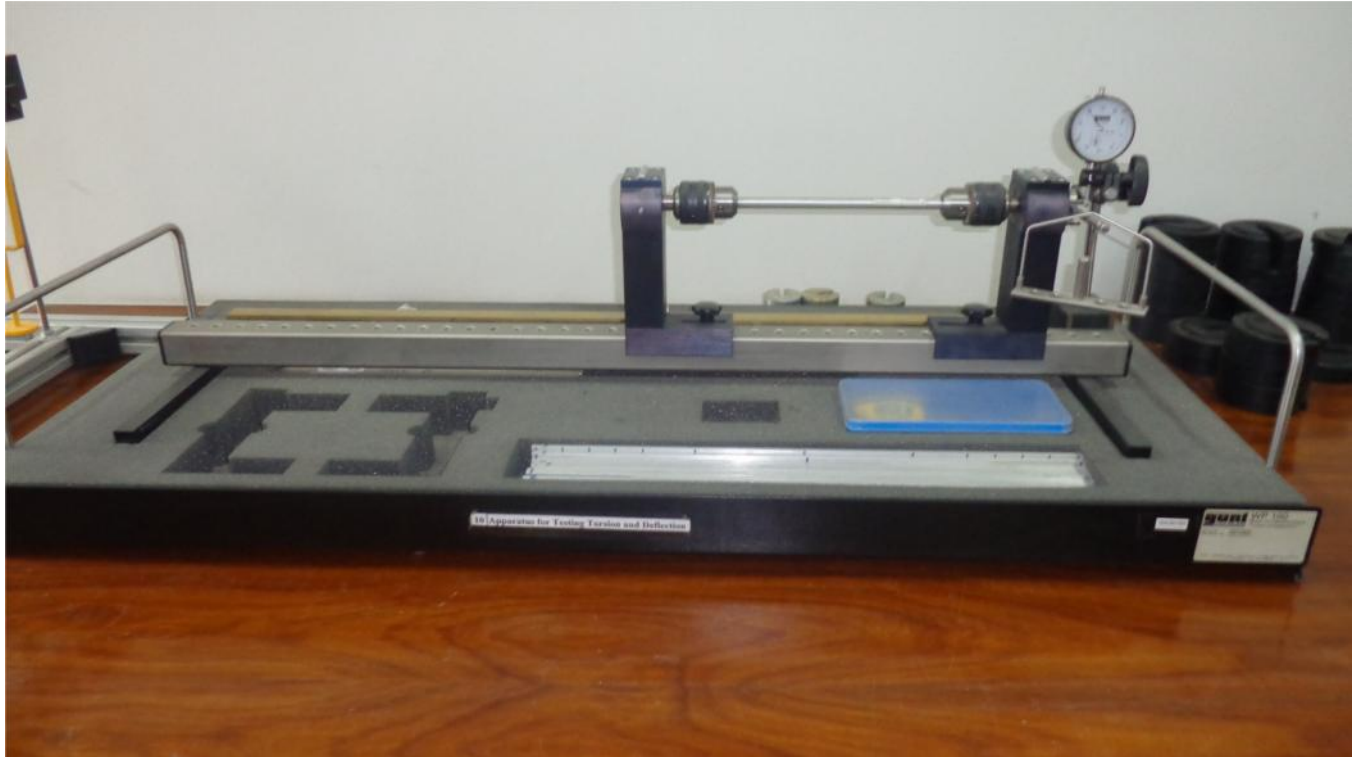
15) Deflection of Flat Plate



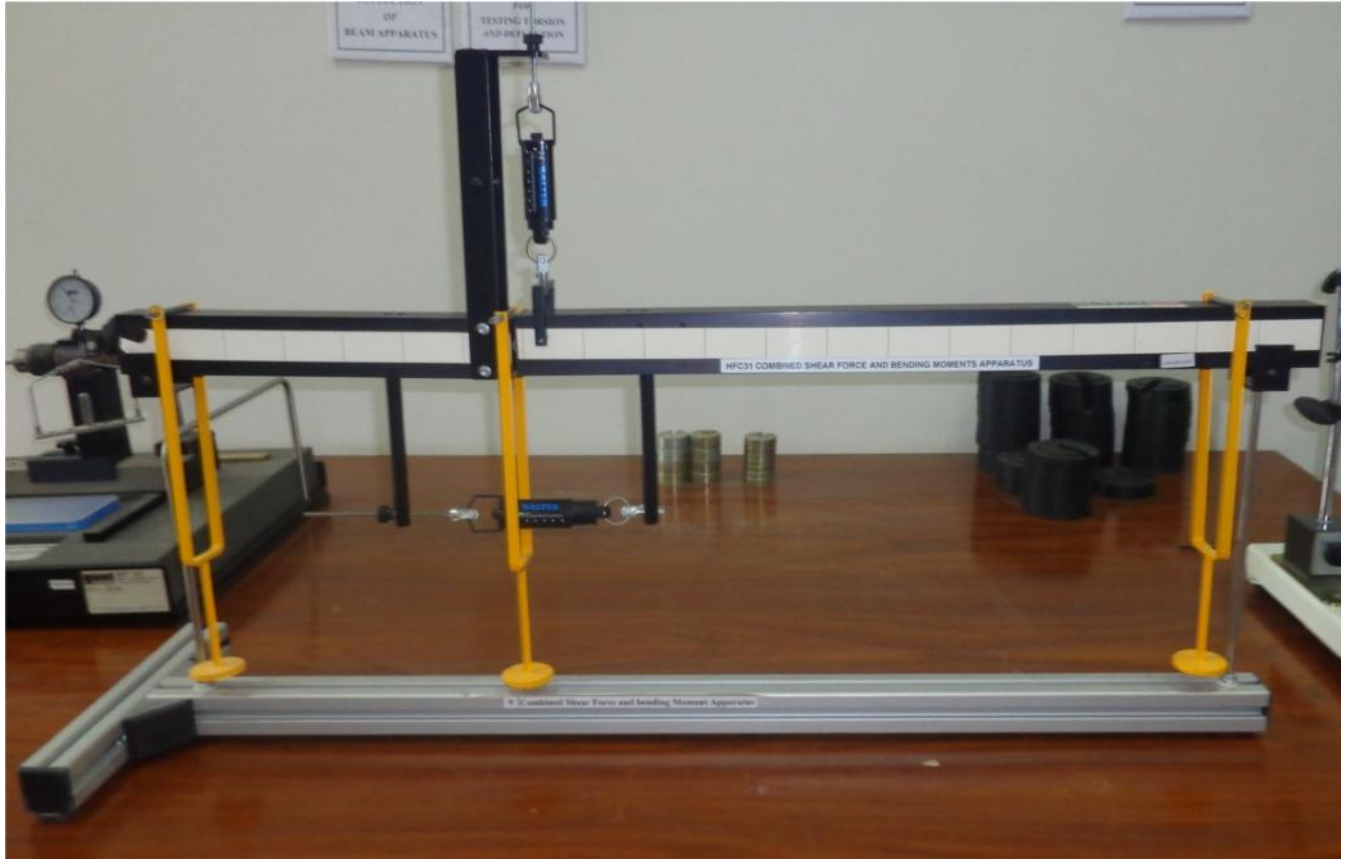
16) Thick Cylinder Apparatus



17) Apparatus for Testing Torsion and Deflection



18) Combined Shear Force and Bending Moment Apparatus



19) Thick Cylinder Apparatus



20) Digital Strain Bridge

