

1.1 Objective

Lab session -1

To analyze the variation in experimental and theoretical deflection both (horizontal and vertical) of a quarter-circular beam.

1.2 Apparatus

- i. Curved Bar Apparatus
- ii. Weight
- iii. Quarter circular beam apparatus
- iv. Dial gauge
- v. Vernier Caliper



Figure 1-2: Quarter Circular Curved Bar Apparatus

1.3 Summary of Theory:

1.3.1 Curved bars / deflection of curved bars

A body whose geometric shape is formed by the motion in space of a plane figure is called the cross section of the curved beam); its center of gravity always follows a certain curve (the axis), and the plane of the figure is normal to the curve. A distinction is made between curved beams with constant cross section (for example, the link of a chain composed of oval or circular rings) and with variable cross section (for example, the hook of a crane) and between plane beams (with a plane axis) and three-dimensional beams (with a three-dimensional axis). A special variety of curved beam is the naturally twisted curved beam, whose plane cross-sectional figure moves along its axis and simultaneously rotates around a tangent to the axis (for example, the blade of an aircraft propeller or fan).

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