

### *Structural Testing Machine Laboratory:*

- I. The Structural testing machine laboratory illustrates principles of structural element behavior under static and dynamic loads. The laboratory contains one main load actuator connected with instruments serving the purpose of the laboratory and measuring the sample deformation and strain during the test process via a data station. The laboratory can be used for teaching and training purposes to undergraduate and postgraduate students. The major loading in the structural testing machine laboratory are:
- II. **Static Loading:** This enables students and researchers to demonstrate structural element behavior (beam, slab, column, and connections) under static load.
- III. **Dynamic Loading:** this is used for demonstrating some of the major and critical cracks found in structural elements (beam – slab- column and connections) due to cyclic loading.



**Figure 1 Structural testing Machine**

