

DYNAMICS LABORATORY

This is where we shake things. The shake table in the structures lab is a high performance uniaxial table built by MTS with adaptive controlling and hydraulic bearings to give very precise control on the response of the table. A large variety of sensors that measure force, displacements, strain, rotation and acceleration allow for all sorts of measurement. A payload of up to 10 tonne is achievable, with accelerations of up to 2.5g and displacements of up to 200mm. Generally it is used for seismic testing but other high frequency applications are commonly performed. Many techniques such as frequency analysis, modal analysis, damage detection research (in development), and more are used to analyse the dynamic behaviour of specimens.

Name of the Important equipment	Technical Manpower Support		
	Name of the Technical Staff	Designation	Qualification
<ul style="list-style-type: none"> • Shake Table Size 1.5x1.5 metres • Universal Data Acquisition System & Accessories • Horizontal Shake Table with eccentric cam • Shake Table Instrumentation • Experimental Models consisting of 12 models • ABAQUS 	Mr. Umair Ahmad	Lab Attendant	Diploma in Engg. (Civil)



HORIZONTAL SHAKE TABLE

SHAKE TABLE WITH ECENTRIC
CAM





MODEL



MODEL



MODEL