

## LAB DEVICES 2024

No.	Lab	Device	Class
1	Laboratory for mechanics of materials	Universal test frame	Mechanics of Materials Laboratory
		Digital force display	
		Automatic data acquisition unit	
		Structure software	
		Bending stress in a beam + computer	
		Torsion of Circular + computer	
		Buckling of struts + computer	
		Continuous and Indeterminate beams + computer	
		Redundant truss	
		Loading machine 1000KN + computer	
		Tivi Sony 4K	
		Digital theodolite	Surveying Practice
		Total station	
		Automatic level Sokkia	
		Aluminium tripod	
		Telescopic staff 5 mm	
		Telescopic staff 4 mm	
		Ranging rod	
		Taping pine	
Steel tape			
2	Laboratory for hydraulics	Hydraulic bench	Fluid Mechanics Laboratory
		Discharge over a notch	
		Flow measurement apparatus	
		Jet Trajectory and Flow Through an Orifice	
		Reynolds number and transitional flow	
		Fluid Friction apparatus	
		An advanced set of three weirs for use with the H1D Volumetric Hydraulics Bench.	
3	Laboratory for soil mechanics	Heating and drying oven	Soil Mechanics Laboratory
		ASTM Liquid limit - Casagrande	
		Plastic limit set	
		Sieving set for ASTM & TCVN + lids and receiver	
		Sieve shaker	
		Pneumatic Direct/residual shear apparatus	

		DELL computer to connect shear apparatus	
		Air pressure machine for shear apparatus	
		Automatic compaction test	
		Consolidation testing device	
4	Computer room	Computer FPT	Practice CADD
		Tivi Sony 4K	Computational methods for Civil Engineering
			Introduction to Computing for Engineers