



CONCRETE TECHNOLOGY LABORATORY

Location: ROOM NO. 138 B, GROUND FLOOR, ADIT

Introduction of Lab:

After water, concrete is said to be the second largest material which is used in the whole world. In simple language, concrete is a construction material which is a mixture of Portland cement, aggregates (fine and coarse) with water. Its properties like plastic and malleable when newly mixed, strong and durable when hardened helps to build Multistory buildings, Dams, Bridges, Canals, Highways and Houses. The objective of Concrete Technology laboratory is to determine the physical properties of building construction materials like cement, fine and coarse aggregate. The tests include determination of specific gravity, fineness, normal consistency, setting times, soundness of cement, strength of cement mortar, cement concrete, workability, and fineness modulus of fine and coarse aggregate,. Students can design the mix, make the specimens and test the same for their respective strengths.

Major equipments which are available in laboratory are Universal testing machine, Digital compression testing machine (2000 KN capacity), Digital rebound hammer, Water bath, Sieve shaker, Flow table, Compaction factor equipment etc.



**CIVIL ENGINEERING DEPARTMENT,
A.D.PATEL INSTITUTE OF TECHNOLOGY**