



# Laboratories

## Department of Civil Engineering



**Ahsanullah  
University of  
Science and  
Technology**

## Laboratories of Department of Civil Engineering, AUST

1. Strength of Material Lab
2. Concrete Lab
3. Transportation Engineering Lab
4. Hydraulics and Fluid Mechanics Lab
5. Geotechnical Lab
6. Environmental Engineering Lab
7. Computer Aided Drawing and Drafting Lab (CADD Lab)
8. Surveying Lab
9. Drafting Studio

### Strength of Materials (SM) Lab

- Located on the Basement-1 of Block-A (Room no. -1A03).
- It covers a floor area of 767.5 sft
- As you can see in the picture... it is well equipped with many sophisticated equipment like universal testing machine, impact testing machine, Rockwell hardness testing machine etc.
- It has the facilities of strength test, tension, compression, static bending, direct share and many more tests of various engineering materials such as concrete, steel timber, plastic etc.



### Concrete Lab

- Located on the Basement-1 of Block-A (Room no. -1A04).
- It covers a floor area of 736 sft.
- -It is also equipped with modern equipments like ADR auto controller compression machine ,
- Los angeles machine and so on.
- -This lab is designed for carrying out routine tests of cement, concrete, brick and other engg. materials.



### Transportation Engineering Laboratory

- Located on the Basement-1 of Block-A (Room no. -1A05).
- It covers a floor area of 736 sft and equipped with penetrometer, impact testing machine, water bath and many more.
- This lab conducts property tests of bitumin, aggregate and tests related to traffic engg etc.



### Hydraulics and Fluid Mechanics Lab

- Located on the Basement-1 of Block-A (Room no. -1A02).
- Covers a floor area of 767.5 sft
- -It is designed to provide a clear visual appreciation of basic hydraulic principles using many modern equipment like pipe friction apparatus , Bernoulli's apparatus, Osborne Reynolds Apparatus etc.



### Geotechnical Engineering Lab

- Located on the 2nd floor of Block-B (Room no. 3B03).
- Covers a floor area of 526 sft.
- It has the facilities of various tests of soil such as specific gravity, shear strength, permeability and so on with many sophisticated equipment.



### **Environmental Engineering Lab**

- Located on the 2nd floor of Block-B (Room no. 3B02).
- Covers a floor area of 546.6 sft.
- Many physical, chemical and bacteriological analysis of water are conducted here using many modern equipment like turbidity meter, BOD apparatus, Arsenic test kit etc.



### **Computer Aided Design & Drafting (CADD) Laboratory**

- Located on the 2nd floor of Block-B (Room no. 3B04).
- This lab is equipped with 34 advanced PCs, & multimedia projector
- It is capable of running latest version of design and Analysis software like Auto CAD, E tabs etc.



### **Drafting Studio**

- ❑ Located on the 1st floor of Block-A (Room no. 2A06).
- ❑ Basic CE drawing is taught in drafting studio.

