

ENVIRONMENTAL ENGINEERING LAB



This laboratory has an area of 1030 Sq. Ft. The objective of this lab is to provide students with hands on experience in chemical, bacteriological and radiological analyses of environmental samples including drinking water, surface water, and waste water.

LIST OF MAJOR EQUIPMENTS

1. p^H meter
2. Spectrophotometer
3. Conductivity-TDS meter
4. Nephelometer
5. Jar test apparatus
6. Incubator
7. Reflux apparatus
8. Muffle furnace
9. Dessicator

SAFETY PRECAUTIONS

- All students should wear laboratory coat and shoes in the lab
- Be alert and don't be in dream while handling chemicals and electrical equipments
- Never work alone in the laboratory.
- Report all injuries to your instructor at once.
- Never taste chemicals or solutions.
- When you are ready to leave the laboratory, your bench area should be rinsed off with a wet sponge and the water, gas, and air valves shut off

CAD LAB



This laboratory has an area of 1570 Sq. Ft . The objective of this lab is to provide students with hands on experience in design and to prepare structural drawings for concrete / steel structures normally encountered in Civil Engineering practice.

LIST OF MAJOR EQUIPMENTS

1. Computers - 42 No.s
2. Printer - 1 No
3. UPS - 2 No.s

Softwares Used

1. AUTOCAD 2016
2. STADD PRO.
3. EPANET

SAFETY PRECAUTIONS

- Students should enter the Roll no., Name ,Login time,Logout time and System No. in the issue register
- Using Mobile phones are strictly prohibited inside the lab.
- Personal chatting, Mail checking, accessing unnecessary sites are not allowed in the lab.
- Students should shut down, switch off the systems & arrange the chairs in proper place before leaving the lab.

GEOTECHNICAL ENGINEERING LAB



This laboratory has an area of 1175 Sq. Ft. The objective of this lab is to provide students with hands on experience to determine soil parameters needed for Geotechnical Engineering design

LIST OF MAJOR EQUIPMENTS

1. Consolidation testing machine
2. UCC testing machine
3. CBR testing machine
4. Direct shear
5. Sieve shaker
6. Hot air oven
7. Standard & Modified Proctor Apparatus
8. Field density Apparatus

SAFETY PRECAUTIONS

- Students should wear laboratory coat and shoes in the lab
- If any damage is caused to any of the machines in the lab by any student/group of students-the cost of the same will be recovered with fine from the particular student or group of students.
- Read the laboratory manuals and study the operation of machines or equipments before starting the lab
- Be careful while handling the machines and equipments

TRANSPORTATION ENGINEERING LAB



This laboratory has an area of 807 sq. Ft. The objective of this lab is to provide students with hands on experience in the fields of rigid and flexible pavements and testing pavements materials and structures.

LIST OF MAJOR EQUIPMENTS

Bitumen Testing

1. Standard Tar Viscometer
2. Bitumen Penetrometer
3. Ductility testing Machine
4. Ring and ball apparatus
5. Flash and fire point apparatus

Aggregate Testing

6. Aggregate crushing value test apparatus
7. Los Angeles Abrasion testing machine
8. Impact Testing Machine

SAFETY PRECAUTIONS

- Students should wear laboratory coat and shoes in the lab
- If any damage is caused to any of the machines in the lab by any student/group of students-the cost of the same will be recovered with fine from the particular student or group of students.
- Read the laboratory manuals and study the operation of machines or equipments before starting the lab
- Be careful while handling the machines and equipments

SURVEYING LAB



This laboratory has an area of 4840 Sq. Ft including field area. The objective of this lab is to provide students with hands on experience to determine the relative position of any objects or points of the earth, to determine the distance and angle between different objects and to prepare a map or plan to represent an area on a horizontal plane

LIST OF MAJOR EQUIPMENTS

1. Dumpy level
2. Prismatic Compass
3. Plane Table
4. Transit Theodolite
5. Total Station

SAFETY PRECAUTIONS

- Students should wear laboratory coat and shoes in the lab
- If any damage is caused to any of the machines in the lab by any student/group of students-the cost of the same will be recovered with fine from the particular student or group of students.
- Read the laboratory manuals and study the operation of machines or equipments before starting the lab
- Be careful while handling the machines and equipments

MATERIAL TESTING LAB



This laboratory has an area of 2500 Sq. Ft. The objective of this lab is to provide students with hands on experience to calculate the mechanical properties of structural materials and to communicate effectively the mechanical properties of materials.

LIST OF MAJOR EQUIPMENTS

1. Compression Testing machine
2. Spring Testing Machine
3. Torsion Testing Machine
4. Universal Testing Machine
5. Torsion pendulum
6. Rockwell hardness testing machine
7. Vickers hardness testing machine
8. Vee Bee Consistometer
9. Tile flexural testing machine
10. Sieve shaker
11. Flow table
12. Vicat apparatus

SAFETY PRECAUTIONS

- Students should wear laboratory coat and shoes in the lab
- If any damage is caused to any of the machines in the lab by any student/group of students-the cost of the same will be recovered with fine from the particular student or group of students.
- Read the laboratory manuals and study the operation of machines or equipments before starting the lab
- Be careful while handling the machines and equipments