



Structural Engineering Laboratory Indian Institute of Technology Hyderabad

SAFETY INSTRUCTIONS

The following is a general advisory for students working in the structural engineering laboratory. It is by no means exhaustive and a student is expected to make additional preparation as per the requirement of the individual experiment or operation of any equipment.

1. Before the Lab:

- a. Prepare thoroughly for lab session (teaching/research). Read the necessary theory and procedure for carrying out the experiment and take necessary precautions.
- b. Understand that the lab staff will only assist in understanding the equipment operation and arranging the consumables for the experiment – they will not conduct the experiment.
- c. Read the standard operating procedure for the equipment. Read necessary ASTM / BIS standards to be used.
- d. Know the location of the First Aid Kit in the laboratory. For emergencies, save the following number 8331036100 (IITH Ambulance). Security : 040 2301 6818/6819/6817

2. During the Lab:

- a. When you enter the lab, enter your name in the Log Book. While borrowing equipment or consumables, make necessary entries in the equipment and consumables register, respectively.
- b. A minimum of two individuals should be present during an experiment. This is especially important if you are working after/before office hours. E.g. Evenings/Weekends/Holidays.
- c. Listen carefully to the instructor and stay alert during the experiment briefing.
- d. Keep your mind on your work at all times. No horseplay on the job. Injury or termination or both can be the result.
- e. Personal safety equipment must be worn such as: safety shoes, safety glasses for eye protection, hard hats at all times within the confines of the lab area where there is a potential for falling materials or tools, gloves when handling materials, and safety shoes are necessary for protection against foot injuries.
- f. Precautions are necessary to prevent sunburn and to protect against burns from hot materials.
- g. If any part of your body should come in contact with an acid or caustic substance, rush to the nearest water available and flush the affected part. Secure medical aid immediately.
- h. Watch where you are walking. Don't run.
- i. Don't be casual in the lab. Don't play, eat, drink or smoke in the lab.
- j. Do not distract the attention of fellow students. Do not engage in any act which would endanger another student.

- k. A good job is a clean job, and a clean job is the start of a safe job. So keep your working area free from rubbish and debris.
- l. Never move an injured person unless it is absolutely necessary. Further injury may result. Keep the injured as comfortable as possible and utilize job site first-aid equipment until an ambulance arrives.
- m. Know where firefighting equipment is located and be trained on how to use it.
- n. Lift correctly. If the load is too heavy GET HELP. Stay fit. Control your weight. Do stretching exercises.
- o. Do not use power tools and equipment until you have been properly instructed in the safe work methods and become authorized to use them.
- p. Be sure that all guards are in place. Do not remove, displace, damage, or destroy any safety device or safeguard furnished or provided for use in the lab, nor interfere with the use thereof.
- q. Never oil, lubricate, or fuel equipment while it is running or in motion.
- r. Know the location of the emergency safety button for the equipment.
- s. Follow the standard operating procedure for the equipment.
- t. Do not place your hand on the specimen when loads are being applied.
- u. Wear shoes in the lab. Wear safety glasses wherever it is instructed while using the equipment.
- v. Don't wear loose clothing. If you have long hair, tie it up.

3. After the Lab Session

- a. Turn off all electric equipment. Place all issued items back in place.
- b. Sign out in the log book and equipment registers.
- c. Wash your hands.

4. PhD and M. Tech. Students Carrying out Experimental Research:

Please make necessary enquiries with your advisor and the faculty-in-charge of the laboratory for experiments specific to your research. You have to book a lab slot in advance for smooth functioning of the lab. If you do not have access to the calendar for Lab slot booking contact lab Staff ,

Safety Undertaking

I, _____, Roll No. _____, have carefully read and understood the above rules and precautions. I have also gone through the Safety Presentation given by the lab staffs. I hereby agree to follow them while working in the lab. I also understand that personal safety while carrying out experimental research is my responsibility and IITH administration including faculty and staff are not responsible for any personal injury due to any unforeseen event/accident. Also, I would move all the jigs and specimens from common lab spaces in the stipulated time and help with all the housekeeping and maintenance efforts in the lab.

Signature:

Date: