

Work safety and fire protection

Good knowledge of work procedures and devices you are about to work with is the best practice for your own health protection in a chemical engineering laboratory. It is obligation of each student to familiarize with the laboratory project (experiment) which he/she will work on (safety regulation above all!). In case of any doubts it is strongly recommended to discuss them with an instructor or an assistant available in the laboratory.

The second important requirement of work safety in a laboratory is to obey safety regulations and instructions of instructors and assistants. The students will take a short safety training before the laboratory course starts and will assume their responsibility by signing a protocol about participating in the safety training.

We ask you to mainly follow these rules:

1. Keep your work environment clean and in order. Smoking, eating and drinking in the laboratory is strictly prohibited. Drinking and eating are allowed in the room outside the main laboratory. An operating apparatus has to be attended by at least one student!
2. The students must not turn on any devices and apparatuses in the laboratory until they are given instructions to do so by an assistant. After finishing the work, the students are to turn in the laboratory apparatus in the same condition that the apparatus was in at the beginning of the class.
3. Shattered glass or other objects with sharp edges and needles must be immediately and properly disposed. There is a container for sharp objects in the laboratory.
4. The students are not allowed to perform any repairs of electrical appliances. They must follow safety regulation described in the instructions for each work carried out in the laboratory. Any malfunction or defect of any apparatus is to be reported to the instructor or the assistant. Water leaks into electromotors and other electrical installations must be avoided.
5. The students must not touch any moving part of any apparatus, especially changing vee belts with running motor is forbidden.
6. Centrifugal pumps can only be started when fully filled with water. Otherwise jamming of the rotary parts in the pumps and burn out of the electromotor can occur. When filling the pump with water, we pay increased attention to not pouring water into the electromotor.
7. The students are required eliminate chances of mechanical or thermal damages of glass apparatuses (e. g. sudden cooling of a hot glass apparatus with cold water).
8. The students are required follow all safety rules stated in the instruction manual for each project.

9. A number of apparatuses are equipped with programmable measuring devices or controllers. When setting the programs, please, adhere to the instructions in the manuals. The improper use of programmable buttons can results in malfunction of the whole apparatus.