SONAMUKHI COLLEGE ESTD-1966

Safety in Chemistry Laboratory and Preservation of Chemicals

An add-on course offered by Department of Chemistry, Sonamukhi College (Through Blended Mode)

Course Duration

September to December, 2023 (Total 30 hours)

Course Coordinator

Dr. Sadhan Kumar Roy
Asst. Prof. in Chemistry
Sonamukhi College
sadhan812005@gmail.com

Internal Resource Persons

Dr. Jnanojjal Chanda
Mr. Santu Konar
Mr. Sourav Sahu

Registration Fees : Rs. 50/-

Course Design

Lab Attire(3 hrs.)

PPE (Protective Equipment) (3 hrs)

Emergency Response procedures(2 hrs)

Emergency response instructions poster (3hrs)

Incident Reporting (2 hrs)

Waste Disposal (3hrs)

Soldering Safety (3 hrs)

Desicator in Chemistry Lab.(2 hr)

Desiccants (1.5hrs)

Light sensitive chemicals (1.5hrs)

Reactive metals like Na and K(3hrs)

Properties of some lab based chemicals (3 hrs)

After successful completion of the course, certificate will be provided to each student

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Objective

The Science classroom laboratory with its equipment, glassware, and chemicals has the potential for accidents. In order to avoid dangerous accidents, or to minimize their damage, precautions must be taken by every student to ensure the safety of everyone working in the laboratory.

So the main objectives of this course are:

- This course offered to learn safety rules for working with chemicals and participating in a safe manner when carrying out lab procedures.
- This helps the students to Handling Chemicals safely.
- Students Use chemicals only as directed and for their intended purpose.
- This course offered to the students to identify and understand the various functions of laboratory equipments.
- Students will learn which chemicals should be kept in Desiccators, which chemicals should be kept in dark and which chemical should be kept under kerosene and why?
- Students will learn which chemicals are toxic and which one should be careful while working in the lab.

Course Outcome

To minimize the risk of injury or illness to laboratory workers by ensuring that they have the training, information, support and equipment needed to work safely in the laboratory.