

**Add-On Course offered by
Department of Chemistry
GGDC, Keshiary**



Management of Hazardous Waste for Healthy Environment

Contact :
Department of Chemistry
GGDC at Keshiary

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Management of Hazardous Waste for Healthy Environment

Introduction:

Unplanned disposal of hazardous waste pose the potential threat on human health, environment quality degradation, planetary resources, and aesthetics. A systematic management of the same is essentially required to control risk to health and hazards. A suitable waste management may result into a reduction of waste handling cost along with enhanced recovery of important resources. Hazardous waste handling is risky for human health. Use of personal protection system along with systematic procedural step are important. Protection of the environment and public health by organizing and communicating knowledge about health risks within a framework is useful for decision-making. The aim of this add-on course is to instil the participant to reduce the hazardous effects of waste on the environment and human health and the systematic and safe handling of the same. Reducing waste will not only protect the environment but will also save on costs or reduce expenses for disposal.

Objective of the course:

This course is designed to provide the knowledge about the wastes that effect healthy environment and the process of their management. This course will also provide hands on training on waste water treatment and sanitizer preparation.

Eligibility:

All undergraduate students who have passed 10+2

Syllabus:

Module 1 (10 hours):

- **Introductory Class - 1 hours**
- **What is environment - 1 hours**
- **Necessity of healthy environment- 1 hours**
- **Wastes that effect healthy environment- 2 hours**
- **Risk factors during waste handling- 2 hours**
- **Precautions and measures for the waste- 2 hours**
- **Responsibilities as human being- 1 hours**

Module 2 (8 hours):

- **Waste categories- 2 hours**
- **Solid waste management- 2 hours**
- **Liquid waste management- 2 hours**
- **Bio hazard management- 2 hours**

Module 3 (10 hours):

Hand on training Programme

- **Waste water treatment: pH measurement, Conductance measurement and Spectroscopic dye degradation analysis of different waste water source. – 6 hours**
- **Sanitizer preparation for self-protection of waste handling workers – 4 hours**

Module 4 (2 hours):

- **Theory and Practical Exam: – 2 hours**

Contact of the course coordinators:

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