

An Add-on course through blended mode of learning

Environmental Hazards and Sustainability

A Joint Initiative by the Departments of Biological Sciences, Garhbeta College

Environmental hazards refer to any natural or human-made factors that can harm the environment and its inhabitants. These hazards can come in many forms, such as air pollution, water pollution, soil contamination, deforestation, climate change, and many others. The impact of environmental hazards can be severe and long-lasting. It is essential to take steps to reduce their impact and prevent them from occurring in the first place. This includes reducing greenhouse gas emissions, implementing sustainable farming practices, and protecting natural habitats from destruction.

Our Objectives

- To understand the interactions between living organisms and their environment, as well as the physical and chemical processes that shape the natural world.
- To identifying and mitigate environmental hazards and develop strategies to reduce the impact of human activities on the environment.
- Promoting sustainable development
- To inform policy decisions related to environmental protection, land use, and natural resource management.
- To increase awareness and understanding of environmental issues and promote environmentally responsible behavior.



Course Coordinators:

Prof. Dr. Swatilekha Maity (Ph. 9775551293)

Prof. Sani Sen (Ph: 8509679590)

Prof. Alekhya Maity (Ph. 9593004304)

Course Modules and Resource Person

Introductory Class by Principal, Sir, Prof. Dr. Hariprasad Sarkar (1 hour)

Module 1 (10 hours)

- **Introductory Class by Principal, Sir, Prof. Dr. Hariprasad Sarkar (1 hours)**
- **Green house and its effects. (1 hours) Prof. Alekhya Maity**
- **Wildlife conservation (Importance, reason of extinction, methods of conservation, steps taken to save wildlife (2 hours) Prof. Alekhya Maity**
- **Plastic pollution and Preventive measures (3 hours) Prof. Dr. Shampa Deb Chanda**
- **Xenobiotics in our daily Life (2 hours) Prof. Dr. Pokhraj Guha**
- **Pharmaceutical Pollution (1 hours) Prof. Dr. Pokhraj Guha**

Module 2 (10 hours)

- **Organic farming (2 hours) Prof. Kunwar Hansda**
- **Bioremediation (2 hours) Prof. Santanu Maity**
- **Water & water management (2 hours) Prof. Dr. SK Sahanawaz Alam**
- **Pollen ,Pollination & allergen with emphasis with apiculture (2 hours) Prof. Sani Sen**
- **Biodiversity & conservation(2 hours) Prof. Biman Dutta**

Module 3 (10 hours)

- **Cancer as an outcome of Environmental hazards (2 hours) Dr. swatilekha Maiti**
- **Environmental hazards and Digestive system (2 hours) Prof. Anupama Bisai**
- **Neurodegenerative diseases related to Environmental hazards (2 hours) Prof. Merina Yasmin**
- **Effect of Environmental hazards on human Respiratory system (2 hours) Prof. Tathagata Chatterjee**
- **Mental health and environment (2 hours) Prof. Anup Jana**

Summative Assessment and Feedback