

Course Name – Environmental Sciences -I

Course code- UESTS-101

Semester- I

Learning Outcomes

Upon successful completion of this course, the students will be able to:

- **correlate ecological dynamics and regulation of vital processes on earth as biogeochemical cycles**
- **Gain an in-depth knowledge on natural processes that sustain life.**
- **Understand the different types of pollution and effect of pollution on human health and environment.**
- **Understand the different types of natural hazard and mitigation approaches.**
- **Understand the international efforts and Indian constitutional provisions with respect to the environmental protection,**
- **Appreciate ideas of sustainable development**

Course Name – Environmental Sciences -II

Course code- UESTS-201

Semester-II

Learning Outcomes

Upon successful completion of this course, the students will be able to:

- **Systematically understand biodiversity and its vital role in ecosystem function**
- **Appreciate the need of biodiversity conservation**
- **Understand the importance of biodiversity in natural environments**
- **Appreciate attributes of natural resource use and management**
- **Critically examine the gap in the resource availability, use, and conservation**
- **sensitize the community about environmental health issues.**

Course Title-Solid Waste Management

Course Code- UESTS-301

Semester-III

Learning Outcomes

Upon successful completion of this course, the students will be able to:

- **apply the principles of Solid waste management under various contexts.**
- **explain the hierarchical structure in solid waste management and a requirement for an integrated solution.**
- **examine the technical points that are required to set up a solid waste management system.**
- **apply the legal legislation related to solid waste management.**
- **make an economical analysis of the solid waste management system.**
- **set up a municipal solid waste management system.**
- **Apply understanding to generate resources from wastes**
- **plan a recycling program and**
- **design a compost facility.**
- **plan a solid waste management system for decision makers.**

Course Title- Environmental Impact Assessment

Course Name- UESTS-401

Semester-IV

Learning Outcomes

Upon successful completion of this course, the students will be able to:

- **Comprehensively understand of the origin and development of EIA and the developments in India**
- **Predict the kind of changes that might occur with human activities.**
- **Understand process and methods of environmental impact assessment**
- **critique environmental impact statements effectively**
- **apply knowledge to new situations.**

Course Title-Green Technology

Course Code-UESTS-501

Semester-V

Learning Outcomes

Upon successful completion of this course, the students will be able to:

- Understand the importance of green technology
- Enlist different concepts of green technologies in a project.
- Understand the principles of Energy efficient technologies

- Identify the importance of life cycle assessment of products
- Recognize the benefits of green and clean fuels with respect to sustainable development.

Course Title- Abatement Techniques

Course Code-UESTS-601

Semester-VI

Learning Outcomes

Upon successful completion of this course, the students will have a broad, integrated understanding the major problems associated with pollution of the atmosphere, water and the land surface.

Students will be expected to be familiar with and have an understanding of the causes of global warming, ozone depletion, enhanced N and S emissions and Problems of pollution of the food chain by potentially toxic elements and persistent organic pollutions; Students are also expected to be aware of the procedures and prospects for reducing unwanted emissions to the environment and remediation of already polluted systems.