

## **MULTIDISCIPLINARY COURSE: ENVIRONMENTAL SCIENCE**

### **Unit 1: Ecosystem and the Environment**

Definition, Scope and importance of Environmental science; Concept, Structure and functions of an Ecosystem; Bio-geographical classification of India; Value of biodiversity; Need for Public awareness towards conservation.

### **Unit 2: Natural Resources**

Renewable and non-renewable resources; Use and over exploitation of natural resources; Role of individual in conservation of natural resources.

Population growth; Impact of human population growth on natural resources and environment; Sustainable development.

### **Unit 3: Environmental Pollution, Laws & Management**

- a. Definition, Causes, Effects and Control/Preventive measures of Air, Water, Soil and Noise pollution.
- b. Legal, administrative and constitutional provisions for environmental protection in India; Evolution and development of International Environmental laws and treaties; Concept and scope of environmental Management; Solid waste management; Waste-to-wealth technologies.

### **Unit 4: Environmental hazards**

Definition - Hazard, vulnerability and risk; Strategies for mitigation - warning system, forecasting, emergency preparedness; Education and Training Activities, planning for Rescue and Relief works.

**COURSE CODE :EDN SEC-1**

**COURSE TITLE : LIFE SKILL EDUCATION**

**Course Objectives:**

**Credits : 3**

1. To provide orientation in life skills.
2. To acquaint students with the social and inter-personal skills that will enable them to cope with the constantly changing environment.
3. To develop feeling of respect for work and dignity of labour in the students.

**Course Contents :**

**UNIT I : Introduction**

- . Concept and definition of Life Skill Education.
- Objectives of Life Skill Education.
- Importance of Life Skill Education.

**UNIT II : Ten Core Life Skills ( Listed by WHO )**

- Problem solving skills .
- Decision making skills.
- Creative thinking skills.
- Critical thinking skills.
- Communication skills.
- Inter-personal skills.
- Empathy.
- Self awareness.
- Coping with emotion.
- Coping stress.

**UNIT III : Methods of Teaching Life Skills.**

- Project, Demonstration, Observation, Experiment and Integrated method.
- Role of teachers and community members in Life skill education.

## **Skill Enhancement Courses**

### **SEC-1: INTRODUCTION TO ARCHAEOLOGY**

**Unit: I      Definition & Components**

Archaeology-Definition, aims, and scopes; Disciplinary relations – Archaeology relationship to History and Anthropology; main branches of Archaeology.

**Unit: II      Historiographical Trends**

History of Archaeology-19<sup>th</sup> to 20<sup>th</sup> century developments; various schools of archaeological thoughts - Cultural-Historical, Processual and Post-processual schools; overview of some recent trends in archaeological theory and practice.

**Unit:III      Field Methods**

Definition of an archaeological site; reading stratigraphy in Archaeology; Method of Archaeological Exploration; Excavation methods - Vertical and Horizontal method of excavation, excavation of human burials; Recording provenience -Three-dimensional method of recording archaeological finds.

**Unit: IV      Dating methods & reconstruction**

Difference between Relative and Absolute Dating Methods; Typology, Stratigraphy, and Geochronology; Radiocarbon and Thermoluminescence Dating Methods; Reconstruction of prehistoric lifeways and interpretation of evidence (e.g.use of environmental, ethnographic, and experimental data).