

## Vidyasagar Evening College

### Teaching plan in Environmental Studies, 2016 - 2017

#### PAPER – I

**Full Marks – 100 (Theory marks-75 + Project work marks-25 )**

**Faculty: Priyabrata Dasgupta**

**Unit I – Fundamental of Environment      During:- August**

Basic Concepts on Environment  
Needs of Environmental Studies  
Changes in Environment  
Natural and Man Made Disaster  
Nature and its Facts  
Land Use Pattern  
Economic Development and Environment  
Heredity and Environment  
Environmental Hazards and Risks

**Unit II – Natural Resource                      During:- August**

Components of Earth  
Natural Cycles- Carbon, Nitrogen, Oxygen  
Renewable resources  
Non- renewable resources

**Unit III – Ecosystem , Biodiversity and Conservation      During:- September**

Concept of Ecology and Ecosystem  
Ecosystems of the World – Environmental Interactions with Plants and Animals  
Types and Importance of Ecosystem  
Food Chain and Food Web  
Concept, Types and Importance of Biodiversity  
Hot spot and Bio-diversity of India  
Threats to Bio-diversity  
Red Data Book  
Conservation of Bio-diversity

**Unit IV – Human Population and Environment                      During:- September**

Human population Distribution  
Human Society and Environment  
Human Rights  
Value education  
HIV/AIDS  
Women and Child Welfare  
Population Growth and Natural Resources

Population Education  
Impact of Economic Development in India in particular  
Major Water, Food and Air Borne Diseases of Human  
Environmental and Personal Hygiene Issues  
Health Hazards in Agriculture  
Pest Control  
Heavy Metal Toxicity

**Unit V – Land and Water use of Earth**      **During:- September & October**

Land use for various purposes  
Water requirement for Human activities  
Soil and Water Pollution  
Water Conservation  
Wasteland Reclamation

**## DISTRIBUTION OF FIELD WORK AMONG THE STUDENTS ##**

- 1. Tree Plantation /Aforestation Programme**
  - Or. Importance of Social Forestry**
  - Or. Joint forest management**
- 2. Study of Pond Ecosystem**
  - Or. Wetland Ecosystem**
  - Or. Arsenic Pollution and Public Health**
  - Or. Ganga Action Plan**
  - Or. Ganga River Pollution**
- 3. Global Warming and Environmental Problems**
  - Or. Ambient Air Pollution**
  - Or. Acid Rain**

**Unit VI – Air, Noise and Major Pollution**      **During:- October & November**

Population Education  
Roles of Individual Gases  
Green House Gases and Global Warming  
Ozone Hole and Acid Rain  
Air pollution Effects  
Climate Change  
Noise Pollution  
Thermal Pollution  
Nuclear Hazards  
Disaster Management

**Unit VII – Energy Source**      **During:- November**

Basic Concept of Energy  
Conventional Energy Sources  
Non-Conventional Energy Sources

**Unit VIII – Social Issues and the Environment**      **During:- December**

Civic Sense

Sustainable and Unsustainable Development

Urban Problems

Resettlement and Rehabilitation of People-Importance and Problems

Environmental Ethics

Environmental Movements

**Unit IX – Waste Management**                              **During:- January**

Treatment of Waste Water

Solid Waste Management

Management of Persistent Organic Pollution

Water Pollution Management

**Unit X – Environmental Policies**                              **During:- February**

History of Environmental Institutions and Instruments

Environmental Policies at the National and State Level

Human Right Issues, relating to Environment

Women and Environment

Different Legislation of Environment

Green Bench

**Unit XI – Submission of Project Report**                              **During:- February-March**

B. Com (Part –III) Honours and General Students

B. Sc (Part –III) Honours and General Students

B. A (Part –III) Honours and General Students