

Vidyasagar Evening College

Teaching plan in Environmental Studies, 2017 – 2018.

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
March**

During:- February-

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