

Name of College: P.I.G.G.C.W. JIND.

Subject: Environmental Studies

Name of Teacher: Satish Kumar

Class: B.A.I., B.Sc. Medical, B.Sc. Non-Medical, C.S., B.C.A.

Month: August to November

Month	Topic
August 2023	<p><u>Unit-1</u> :- Definition, Scope and Importance of Environmental Studies subject.</p> <p>The Multidisciplinary nature of Environmental Studies Subject.</p>
Sept. 2023	<p><u>Unit-1</u> :- Concept of Sustainability and Sustainable development.</p> <p>Definition, Structure and function of an ecosystem.</p> <p>Energy flow in an Ecosystem, Food chains, Food webs, Major Ecosystem Types:- Forest Ecosystem, Grassland Ecosystem, Desert Ecosystem and aquatic ecosystem like lakes, rivers and oceans.</p> <p><u>Unit-II</u> :- Natural Resources; Renewable and Non-Renewable resources: Land Resources, Land degradation and soil erosion</p> <p>Forest Resources: Importance of forests, deforestation: Causes and impacts on environment.</p> <p>Water Resources: Use and overexploitation of surface and ground water, Renewable and Non Renewable energy sources</p>

Topics

Bio-diversity and its Conservation: Definition and its types
Endangered and endemic species of India, Threats to biodiversity
Habitat loss, Poaching of wildlife, Man-wildlife conflicts
Biological Invasions.

Oct-
2023

Conservation of biodiversity: In-situ and Ex-situ
Conservation of biodiversity, Ecosystem and biodiversity
services, Ecological, Economic, social, ethical, aesthetic
and Informational values.

Unit-III: - Environmental Pollution - Types, causes, effects
and Control of Air, water, soil and noise pollution.
Solid waste management: sources, methods of disposal
Landfill, Incineration and Composting.
Climate change, Global warming, Ozone Layer
depletion, acid rain and impacts of human communities
and agriculture

Environmental Policies and Practices: - Environmental
Laws - Environment (Protection) act, 1986. Air (Prevention
and Control of Pollution) Act, 1981. Water (Prevention
and Control of Pollution) act, 1974

Unit-IV: Human Communities and The Environment: -

Human population growth: Impacts on Environment
human health and welfare.

Resettlement and Rehabilitation of Project affected
Person.

Disaster management: Floods, Earthquake, Cyclones
Landslides and drought.

Environmental Ethics: Role of Indian and other
religions and cultures in Environmental Conservation.

Nov-
2023