



HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai.)

Re-Accredited with A++ Grade by NAAC (3rd Cycle)

Uthamapalayam - 625 533.

PART – IV ENVIRONMENTAL STUDIES

SYLLABUS

Choice Based Credit System – CBCS

With

Outcome Based Education (OBE)

(Academic Year 2026 - 2027 onwards)

Course Code	Course Title	Category	Hours	Credits
26UGEVS11	ENVIRONMENTAL STUDIES	Part - IV	2	2

SYLLABUS

UNIT - I 6 Hours

Earth and its Environment:

- a) Earth- formation and Evolution of Earth over time - structure of Earth and its components – Atmosphere, Lithosphere, Hydrosphere and Biosphere.
- b) Resources – renewable and nonrenewable resources

UNIT - II 6 Hours

Ecology and ecosystem concepts:

- a) Ecology – definition - Ecosystem: Definition – structure and function – energy flow – food chain and Food web – one example for an ecosystem
- b) Biogeochemical cycles – Nitrogen, carbon, Phosphorous and Water

UNIT - III 6 Hours

Biodiversity of India:

- a) Introduction – definition – Values of Biodiversity -Threat to Biodiversity – Conservation of Biodiversity
- b) Biodiversity of India – as a mega diversity nation – bio-geographical distribution – Hot spots of biodiversity – National Biodiversity Conservation Board and its function

UNIT - IV 6 Hours

Pollution and Global issues:

- a) Definition, causes, effects and control measures of Air, Water, Soil, Marine, Noise, Thermal and Nuclear pollution
- b) Global issues: Global Warming and Ozone Layer Depletion

UNIT - V 6 Hours

Development and Disaster Management:

- a) Sustainable Development – Sustainable Agriculture – Organic farming, Irrigation – Water harvesting and Waste recycling – Cyber waste and management
- b) Disaster Management – Flood and Drought – Earthquake and Tsunami – Landslides and Avalanches – Cyclones and Hurricanes –Precautions,Warnings, Rescue and Rehabilitation.

Text Book:

Environmental Studies, Published by Madurai Kamaraj University.

Reference Book:

De, K., *Environmental Chemistry*, New Age International (P)Limited, 2017, 8th Edition.