

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.



COMMON PAPER

PART – IV

ENVIRONMENTAL STUDIES

SYLLABUS

Choice Based Credit System – CBCS

(As per TANSCH/ MKU Guidelines)

(Academic Year 2025 -2026)

Course Code	Course Title	Category	Hours	Credits
23UGEVS41	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:

1. *Environmental Studies*, Published by Madurai Kamaraj University.

Reference Book:

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