

E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.

(An Autonomous Institution – Affiliated to Madurai Kamaraj University)

Re-accredited (**3rd Cycle**) with Grade **A+** & **CGPA 3.51** by NAAC

ENVIRONMENTAL STUDIES



CBCS SYLLABUS

COURSE STRUCTURE

(w.e.f. 2021 – 2022 onwards)

E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI -14.**(An Autonomous Institution – Affiliated to Madurai Kamaraj University)****Re-accredited (3rd Cycle) with Grade A⁺ and CGPA 3.51 by NAAC****CBCS****(w.e.f. 2021 – 2022 Batch onwards)****Title of the Paper : Environmental Studies****Semester : V****Contact hours: 2hrs****Sub Code : 214EV5****Credits : 2****Objectives:**

1. To sensitize the students on the Environmental issues.
2. To create awareness of the Environmental issues and its conservation.

Unit: I

Natural Resources :- Water Renewable Resources and watershed management– Forest Resources, management and conservation - Soil Resources and conservation- Food Resources – Energy Resources – Non Renewable Resources and conservation of energy.

Unit: II

Ecosystem :- Structure of an Ecosystem, Abiotic Components – Biotic Components – Functional Components – Food Chain – Energy Flow – Biogeochemical Cycles – Types of Ecosystem – Types of Aquatic Ecosystem – Pond Ecosystem – Grassland Ecosystem – Desert Ecosystem.

Unit: III

Biodiversity and Conservation: - What is Biodiversity – Levels of Biodiversity – Values of Biodiversity – Consumptive use value – Social benefits – Cultural Values – India as a Mega Diversity Nation – Methods of Conservation (Zoological Parks, National Parks and Sanctuaries) and its significance.

Unit: IV

Pollution : - Types of Pollutants – Types of Pollution - Air Pollution - Water Pollution- Thermal Pollution – Marine Pollution – Soil Pollution, Noise Pollution – Radiation Pollution. Solid waste and consumerism, effects of soil pollution, solid waste management – Control Measures.

Unit: V

Environmental Ethics and Social Issues :- Attitudes of Major Religions towards the Environment – Human Population and Environment – Globalization and the Environment – Global Environmental Issues – Information technology and the environment, Alternative Lifestyles – Role of Individuals, Organizations and Government in protecting the Environment.

Text Book:

1. Board of Editors. *Essentials of Environmental Education*. Centre for Environmental Studies, Lady Doak College, Madurai, 2014.

Reference Books:

1. Chawla, P.S. *Disaster: How to Avoid Harm*. New Delhi, Pearl Books Publications, 2008.
2. Dhar, D. N., Vaish, T.Kumar. *Environmental Science & Ethics*. New Delhi, Vayu Education of India, 2009.
3. Mackenzie.A, Ball,A.S. and Virdee, S.R.. *Instant notes in Ecology*. New York, Taylor and Francies, 2010.
4. Misra, S.P., and Pandey, S.N. *Essential Environmental Studies*. New Delhi, India, 2010.