



## CRITERION I – CURRICULUM ASPECTS

### 1.3 Curriculum Enrichment

#### 1.3.1 Curriculum Addressing Cross Cutting Issues

##### 1.3.1.2 Courses Offered at Institutional Level

#### 3. ENVIRONMENTAL STUDIES

#### ENVIRONMENTAL STUDIES

Theory Hours	: 2	Course Code	: U212ES
Practical Hours	: --	Credits	: 2
Exam Hours	: 3	Marks	: 25+75

**Objectives:** To acquire the knowledge on the Environment - principles, definition and importance, influence of the living organism through ecosystem structure and components, various habitats, sources of pollution and conservation of wild life, influence of population growth, health and rights.

#### UNIT-I

The Multidisciplinary Nature of Environmental Studies

- Definition, Scope and Importance.
- Renewable and Non- Renewable Resources.
- Nature Resources and associated problems.

#### UNIT-II

Biodiversity and its Conservation

- Introduction – Definition.
- Biodiversity at global, national and local levels.
- India as a mega – diversity nation.
- Hot – spots of biodiversity.
- Conservation of Biodiversity : In – Situ and Ex – situ conservation of Biodiversity.

#### UNIT – III

Environmental Pollution Definition

- Causes, Effects one layer and Control Measures of :
  - a. Air Pollution – Climate Change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
  - b. Water pollution.
  - c. Soil pollution.
  - d. Noise pollution.
- Solid Waste Management : Causes, Effects and Control measures of urban and Industrial Wastes.
- Role of an individual individual in prevention of pollution
- Disaster Management : Floods, Earthquake, Cyclone and landslides.

#### UNIT – IV

Social Issues and the Environment

- From un – sustainable to sustainable development.
- Urban Problems related to energy.
- Water Conservation, rain water harvesting, Watershed Management.



# GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM – 612 001

*Affiliated to Bharathidasan University*

**DST - CURIE Sponsored Institution**

**IV Cycle of Accreditation**



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- Resettlement and rehabilitation of people : its problems and concerns case studies.
- Environment protection Act.
- Air (prevention and control of pollution) Act.
- Wildlife protection Act.
- Forest conservation Act.
- Issues involved in enforcement of environmental legislation.
- Public awareness.

## UNIT V

### Human Population and the Environment

- Population growth explosion, variation among nations – Family Welfare programme.
- Environment and Human Health.
- Human Rights.
- HIV/AIDS.
- Women and child welfare.
- Role of Information Technology in Environment and human health.
- Case Studies.

### Reference Books:

- 1 Bernis Anandharaj (2016) Soolnilaiyiyal. Chrisolite publications. Adyar, Chennai.
- 2 Odum E.P (1971). Fundamentals of ecology. W.B Saunders Company, Philadelphia.
- 3 Kendeigh S.C (1961). Animal ecology. Prentice Hall.
- 4 Clarks GL (1954). Elements of Ecology. John Wiley and sons, Newyork.
- 5 Purohit S.S., Shami DH and A.K Agarval (2004). Environmental sciences - A new approach. Agrobi, Jodhpur.
- 6 Krishnamurthy K.V (2003). Introduction to Biodiversity. Oxford and IBH.



  
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