

Sl. No.:

Subject Code:

GOVERNMENT ARTS COLLEGE (AUTONOMOUS), KARUR-05
ALL UG COURSES - II SEMESTER – PART – IV
(For the candidates admitted from the year 2016-17 onwards)

ENVIRONMENTAL STUDIES

Course Outcomes:

The course will empower the undergraduate students by helping them to:

- Gain in-depth knowledge on natural processes that sustain life on various perspectives.
- Predict the role of biotic and abiotic factors in maintaining the balance of ecosystem and consequences of human actions on restoring the different ecosystem.
- Form strategies of conserving various non-renewable resources and utilising renewable resources
- Understand the values of biodiversity, Adopt strategies of conserving biodiversity
Acquire knowledge on control measures to ward off various kinds of pollution hazards.
- Adopt the better methods of disaster management and conventional Indian cultures to preserve environmental ethics
- Acquire values and attitudes towards understanding complex environmental-economic social challenges and participating actively in solving current environmental problems and preventing the future ones.
- Adopt sustainability as a practice in life, society and industry.
- On-field experience in projects of conservation of animals, biodiversity, natural resources and pollution management

Unit 1

Environment – Introduction – Nature – Scope – Content – Need for study: Natural resources – Forest and Energy resources – use and over exploitation –deforestation – Energy resources – reviewable and non reviewable energy resources.

Unit 2

Eco System: Concept – Structure and function – Procedures – consumers and decomposers – Food Chains – Food Webs and Ecological Pyramids – Biodiversity and its conservation : Introduction – definition – genetic – species and eco system diversity – conservation of biodiversity.

Unit 3

Environmental Pollution – Definition – causes – effects and control Measures – Types – Air – Water – Soil – Thermal and Nuclear hazards – solid waste and Management – Disaster Management – Role of an individuals in controlling pollution – Earth Quake –Earth Quake and Cyclone – Flood.

Unit 4

Social issues and the environment: urbanization – urban problems related to energy – Water Shed Management – Environmental ethics: issues and possible solutions – Wasteland reclamation – Climate Change – Global Warming - Acid rain – Ozone layer depletion – Public awareness.

Unit 5

Human Population and the environment: Population growth, Variation among nations – Population explosion – Family Welfare Programme – Human rights – HIV/AIDS – Women and Child Welfare – Role of information technology in environment and human health.

CHAIRMAN – BOS

COE