

OFFICE OF THE DIRECTOR, ACADEMIC AUDIT CELL
SATAVAHANA UNIVERSITY
KARIMNAGAR - 505 001 (T.S.), INDIA

Dr. V. Ramesh

Director

Lr.No. SU/KNR/2019-20/979

Date: 17.10.2019.

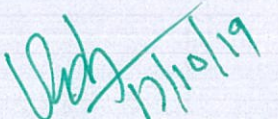
CIRCULAR

Sub: Satavahana University, Karimnagar – “Environmental studies” paper as common in 1st semester for all UG Courses - Circular – Issued.

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All the Principals of UG colleges are instructed to follow the “Environmental studies” paper as common in 1st semester for all UG Courses for 2 credits.

The syllabus is available in university website www.satavahana.ac.in.


17/10/19
DIRECTOR

Encl: syllabus of Environmental studies

To
All the Principals of UG (Govt.& Private) Colleges
Satavahana University
Karimnagar.

ENVIRONMENTAL STUDIES

UNIT - I : ECOSYSTEM, BIODIVERSITY & NATURAL RESOURCES : (15 hrs.)

1. Definition, Scope & Importance of Environmental Studies.
2. Structure of Ecosystem – Abiotic & Biotic components Producers, Consumers, Decomposers, Food chains, Food webs, Ecological pyramids)
3. Function of an Ecosystem :Energy flow in the Ecosystem (Single channel energy flow model)
4. Definition of Biodiversity , Genetic, Species & Ecosystem diversity , Hot-spots of Biodiversity, Threats to Biodiversity , Conservation of Biodiversity (Insitu & Exsitu)
5. Renewable & Non – renewable resources, Brief account of Forest , Mineral & Energy (Solar Energy & Geothermal Energy) resources
6. Water Conservation, Rain water harvesting & Watershed management.

UNIT – II : ENVIRONMENTAL POLLUTION , GLOBAL ISSUES & LEGISLATION : (15 hrs.)

1. Causes, Effects & Control measures of Air Pollution, Water Pollution
2. Solid Waste Management
3. Global Warming & Ozone layer depletion.
4. Ill – effects of Fire- works
5. Disaster management – floods, earthquakes & cyclones
6. Environmental legislation :-
(a) Wild life Protection Act (b) Forest Act (c) Water Act (d) Air Act
7. Human Rights
8. Women and Child welfare
9. Role of Information technology in environment and human health

FIELD STUDY: (5 hrs.)

- Pond Ecosystem
- Forest Ecosystem

SUGGESTED BOOKS :

1. Environmental Studies - from crisis to cure – by R. Rajagopalan (Third edition) Oxford University Press.
2. Text book of Environmental Studies for undergraduate courses (second edition) by Erach Bharucha
3. A text book of Environmental Studies by Dr.D.K.Asthana and Dr. Meera Asthana
4. Environmental Studies (2019), R Venkateswara Rao, HPH