



Sri A.S.N.M. Government College(Autonomous)

(Re-accredited at 'B' Grade by NAAC with 2.61 CGPA)

Palakol-534260, West Godavari Dist, Andhra Pradesh, India.

Revised Syllabus under CBCS Pattern

(w.e.f. 2020-'21 Academic Year)

A Mandatory Course for BA/BCom/BSc etc.

ENVIRONMENTAL EDUCATION

(Total hours of Teaching – 30 Hrs. @ 02 Hrs. per Week)

Course objective: A Generic Course intended to create awareness that the life of human beings is an integral part of environment and to inculcate the skills required to protect environment from all sides.

Learning outcomes: On completion of this course the students will be able to

1. Understand the nature, components of an ecosystem and that humans are an integral part of nature.
2. Realize the importance of environment, the goods and services of a healthy biodiversity, dependence of humans on environment.
3. Evaluate the ways and ill effects of destruction of environment, population explosion on ecosystems and global problems consequent to anthropogenic activities.
4. Discuss the laws/ acts made by government to prevent pollution, to protect biodiversity and environment as a whole.
5. Acquaint with international agreements and national movements, and realize citizen's role in protecting environment and nature.

Unit 1: Environment and Natural Resources

06 Hrs.

1. Multidisciplinary nature of environmental education; scope and importance.
2. Man as an integral product and part of the Nature.
3. A brief account of land, forest and water resources in India and their importance.
4. Biodiversity : Definition; importance of Biodiversity - ecological, consumptive, productive, social, ethical and moral, aesthetic, and option value.
5. Levels of Biodiversity: genetic, species and ecosystem diversity.

Unit-2: Environmental degradation and impacts

10 Hrs

1. Human population growth and its impacts on environment; land use change, land degradation, soil erosion and desertification.
2. Use and over-exploitation of surface and ground water, construction of dams, floods, conflicts over water (within India).
3. Deforestation: Causes and effects due to expansion of agriculture, firewood, mining, forest fires and building of new habitats.
4. Non-renewable energy resources, their utilization and influences.

5. A brief account of air, water, soil and noise pollutions; Biological, industrial and solid wastes in urban areas. Human health and economic risks.
6. Green house effect - global warming; ocean acidification, ozone layer depletion, acid rains and impacts on human communities and agriculture.
7. Threats to biodiversity: Natural calamities, habitat destruction and fragmentation, over exploitation, hunting and poaching, introduction of exotic species, pollution, predator and pest control.

Unit 3: Conservation of Environment

10 Hrs

1. Concept of sustainability and sustainable development with judicious use of land, water and forest resources; afforestation.
2. Control measures for various types of pollution; use of renewable and alternate sources of energy.
3. Solid waste management: Control measures of urban and industrial waste.
4. Conservation of biodiversity: In-situ and ex-situ conservation of biodiversity.
5. Environment Laws: Environment Protection Act; Act; Wildlife Protection Act; Forest Conservation Act.
6. International agreements: Montreal and Kyoto protocols; Environmental movements: Bishnois of Rajasthan, Chipko, Silent valley.

Suggested text book :

- ErachBarucha (2004) *Text book of Environmental Studies for Undergraduate courses* (Prepared for University Grants Commission) Universities Press.
- PurnimaSmarath (2018) *Environmental studies* Kalyani Publishers, Ludhiana

Reference books :

- Odum, E.P., Odum, H.T. & Andrews, J. (1971) *Fundamentals of Ecology*. Philadelphia: Saunders.
- Pepper, I.L., Gerba, C.P. & Brusseau, M.L. (2011). *Environmental and Pollution Science*.



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I YEAR I SEMESTER RESULT, Nov-2017

Subjectwise Pass Percentage List (CBCS)

Sno	Subject	I SEMESTER		
		APPEARED	PASSED	%
1	(ENG-1) ENGLISH -1	141	123	87.23
2	(LAN-1) TELUGU	139	131	94.24
3	(HVPE-1-1) HUMAN VALUES & PROFESSIONAL ETHICS -1-1	139	135	97.12
4	(ES-2-1) ENVIRONMENTAL STUDIES -2-1	139	131	94.24
5	(FA-1) FINANCIAL ACCOUNTING -1	60	50	83.33
6	(HIS-1) HISTORY-1	21	18	85.71
7	(MAT-1) MATHEMATICS -1	35	23	65.71
8	(PHY-1) PHYSICS -1	35	21	60.00
9	(ECO-1) ECONOMICS-1	21	20	95.24
10	(BOM-1) BUSINESS ORGANISATION & MANAGEMENT -1	60	58	96.67
11	(BOT-1) BOTANY -1	23	23	100.00
12	(FCP-1) FUNDAMENTALS OF COMPUTERS & PHOTOSHOP-1	26	23	88.46
13	(BE-1) BUSINESS ECONOMICS -1	34	34	100.00
14	(POL-1) POLITICAL SCIENCE-1	21	20	95.24
15	(CHE-1) CHEMISTRY -1	40	36	90.00
16	(CS-1) COMPUTER SCIENCE -1	17	17	100.00
17	(ZOO-1) ZOOLOGY -1	23	22	95.65