CENTRE FOR FUTURES STUDIES

ENVIRONMENTAL EDUCATION - SYLLABUS

(VALUE ADDED COURSE)

The Gandhigram Rural Institute - Deemed to be University Gandhigram

Ministry of Education, Government of India

Accredited by NAAC with 'A' Grade (3rd Cycle)

Dindigul District

Tamil Nadu

CENTRE FOR FUTURES STUDIES

THE GANDHIGRAM RURAL INSTITUTE- DEEMED TO BE UNIVERSITY

GANDHIGRAM-624 302

TEMPLATE FOR OBE ELEMENTS

Name : Dr.K.Velumani

Designation & Department/Centre : Professor &Director
Centre for Futures Studies

Academic Programme offered (Value Added Course) : **Environmental Education**

Template for Course Syllabus

Course Code **Title**	**24FSUV1001 for Under Graduate and** **24FSIV1101 for Integrated Course** **ENVIRONMENTAL EDUCATION**		
Programme	**Under Graduate level**	**Semester**	**One &Two**
(Credit – 2 **Total Hours – 30)**	**Course Objectives** **The Course Aims** • To impart the basic knowledge about the environment and its associated problems among students. • To develop an attitude of concern for environment and create harmony with nature among students. • To motivate students to acquire a set of values for environmental conservation and for improvement. • To create awareness & importance of sustainable development without degrading the environmental resources.		

ENVIRONMENTAL EDUCATION SYLLABUS

Unit	Content	No. of Hours
I	**Natural Resources** Environment – Definition - Environmental Studies : Scope and Importance - Natural resources - Classification of natural resources : Biotic and Abiotic - Renewable and Non-renewable	5
II	**Ecosystem and Biodiversity** Ecosystems – Structure and Function - Types - Biodiversity – Definition - Types - Values - Threats - Conservation: In-Situ and Ex-Situ conservation	5
III	**Population and Pollution** Global Phenomena - Human population and Environment – Resource degradation - Pollution – Types : Air, Water, Soil, Noise and Radioactive - Waste Management (Concept of 3 R) - Impacts on Environment	6
IV	**Disaster** Disaster: Concept - Causes – Types - Natural Disasters - Manmade Disaster – Disaster Management Cycle - Disaster Management Authorities	5
V	**Environmental Protection and Conservation** Environmental Movements : Chipko, Silent Valley and Bishnois of Rajasthan - Major Indian Environmental Laws : Air, Water, Wildlife, Forest and Environment Protection - Environmental Ethics and Social Justice - Environmental Education - Types – Need and Importance - Role of Information Technology and Mass Media in Environmental Protection	9
	Field Visit • Study of simple ecosystem (Pond, Lake, Hill, River, etc..) • Documentation of Campus biodiversity • Solid waste Treatment Unit • Visit to local polluted site • Observe Local Regional Environmental Issues • Preparing village Disaster Management plan / Visiting Project sites relevant to disaster	

Reference	1. Asthana. D.K., Meera Asthana, 2006, A text book of Environmental Studies, S.Chand& Company Ltd., New Delhi. 2. Benny Joseph, 2005, Environmental Studies, Tata Mcgraw –Hill publishing company, New Delhi. 3. Erach Bharucha, 2005, A text book of Environmental Studies, UGC, University Press, New Delhi. 4. Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p. 5. Laura J. Martin., (2022) Wild by Design: The Rise of Ecological Restoration, Harvard University Press 6. Nandini, N. (2019). A text book on Environmental Studies (AECC). Sapna Book House, Bengaluru 7. Palanithurai, G., 2009, Panchayats in Disaster: preparedness and Management, Concepts publishing company. 8. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi. 9. Thangamani and Shyamala, 2003, A text book of Environmental Studies, Pranav Syndicate, Publishing Division, Sivakasi. 10. Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication (TB) **WEBSITES** 1.http://wwf.panda.org/knowledge_hub/teacher_resources/webfieldtrips/natural_resources/ 2. https://www.conserve-energy-future.com/what-is-biodiversity.php 3. http://pdf.wri.org/environmentalpollution_bw.pdf 4. https://ndma.gov.in/en/
Course outcomes	**On Completion of the Course, Students should be able to** ❖ **CO1** – Gain basic knowledge about the environment, natural resources, their use and management ❖ **CO2** – Understand the basic structure and function of ecosystem ❖ **CO3** - Learn the importance of biodiversity and sustainable use and protection of biodiversity ❖ **CO4** – Identify the global environmental issues and develop an attitude of concern for environment and create harmony with nature among students. ❖ **CO5** - Acquire a set of values for environmental conservation and for improvement.