



**SARDAR PATEL UNIVERSITY**  
**Vallabh Vidyanagar, Gujarat**  
**(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))**  
**Syllabus with effect from the Academic Year 2021-2022**

Bachelor of Science - Home Science  
(B.Sc.- H.Sc.) (Home Science) Semester (I)

Course Code	UH01AHSC51	Title of the Course	Environment Studies
Total Credits of the Course	02	Hours per Week	02

Course Objectives:	<ol style="list-style-type: none"><li>1. Generate environmental awareness among the students</li><li>2. Make them understand the importance of conserving natural resources.</li><li>3. Study the impact of population explosion and social issues related to it.</li><li>4. Create a pro-environmental attitude for sustainable development.</li></ol>
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Course Content		
Unit	Description	Weightage* (%)
1.	The multidisciplinary nature of environmental studies (a) Definition, Scope and Importance (b) Objectives of environment education (c) Need for public awareness	20
2.	Natural Resources (a) Forest Resources: Use and over exploitation, deforestation, case studies, Timber extraction, mining, dams and their effects on forests and tribal people. (b) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. (c) Role of an individual in conservation of natural resources.	20
3.	Ecosystems & Biodiversity (a) Structure and function of an ecosystem (b) Food chains, food webs and ecological pyramids (c) Types of Ecosystem: Forest Ecosystems, Desert ecosystems, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) (d) Biodiversity: Definition, Types of biodiversity, Conservation of biodiversity: In-situ and Ex-situ (e) Disaster management: Floods, Earthquakes, Cyclones and landslides	30
4.	(a) Environmental Pollution: types of pollution ( Air Pollution, Water Pollution, Soil Pollution, Noise Pollution), Sources, prevention and its effect on human beings, plants and animals. (b) Human Population, Social issues and the Environment: From unsustainable to sustainable development, Water conservation, rain water harvesting, watershed management, green buildings, organic farming , drip irrigation, eco-friendly products	30



Teaching-Learning Methodology	Power point presentations, Videos, Field visits, Assignments, Quiz, Participatory lectures, Discussions and display of various environment friendly materials, lectures, tutorials, library use and e-learning
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Understand the difference between sustainable and unsustainable development
2.	Development and predict problems that future generation has to face if use of non-renewable resources
3.	Understand their role in preventing pollution and conserving natural resources.

Suggested References:	
Sr.No	References
1	Bhatt, Patel., & Gohil, (2008). <i>Paryavaran, Environmental Studies</i> . Surat:New Popular Prakashan.
2	Tiwari, Khulbe.,&Tiwari (2007). <i>Environmental Studies</i> . New Delhi: I.K. International Publishing House Pvt.Ltd.
3	Kaur H. (2005). <i>Environmental Studies</i> . Meerut: Pragati Prakashan
4	Bharucha Erach (2005). <i>A Textbook of Environmental Studies</i> . Hyderabad: University Grant Commission, University Press Pvt. Ltd.
5	Sharma P.D. (2003). <i>Ecology and Environmental</i> . New Delhi: Rastogi Publications.

On-line resources to be used if available as reference material-
On-line Resources
<a href="http://egyankosh.ac.in/">http://egyankosh.ac.in/</a>

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