

SARDAR PATEL UNIVERSITY
Programme: B.Sc (Home Science)
Semester: I
Syllabus with effect from: June-2011

Paper Code: UH01FENV02	Total Credit: 2
Title Of Paper: Environmental Studies	

Unit	Description in detail	Weighting (%)
I	The Multidisciplinary nature of environmental studies Definition, scope and importance Need for public awareness	5%
II	Natural Resources Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people. Energy resources: Growing energy needs, renewable and non renewable Energy sources, use of alternate energy sources. Role of an individual in conservation of natural resources Equitable use of resources for sustainable lifestyles	15%
III	Ecosystems & Biodiversity Concept of an ecosystem Structure and function of an ecosystem Food chains, food webs and ecological pyramids Introduction, types, characteristic features, structure and function of the following ecosystems <ul style="list-style-type: none"> ➤ Forest ecosystems ➤ Desert ecosystems Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) Biodiversity: Definition: genetic, species and ecosystem diversity Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity	30%
IV	Environmental Pollution Definition Air pollution Water pollution Soil pollution Noise pollution Disaster management: floods, earthquakes, cyclones and landslides	25%
V	Human population, Social issues and the Environment From unsustainable to sustainable development Water conservation, rain water harvesting, watershed management Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies Human population and the Environment Role of information Technology in Environment and human health	25%

Basic Text & Reference Books

- Bhatt, Patel and Gohil, "Paryavaran, environmental studies" New Popular Prakashan. Surat (2008)
- Tiwari, Khulbe and Tiwari "Environmental Studies" I.K. International publishing house Pvt ltd, New Delhi (2007)
- Kaur H. "Environmental Studies" Pragati prakashan, Meerut (2005)
- Bharucha Erach "A Textbook of Environmental Studies" University Grant Commission, University Press pvt ltd, Hyderabad (2005)
- Sharma P.D. "Ecology and Environment" Rastogi Publications, New Delhi (2003)

