

**SARDAR PATEL UNIVERSITY**  
**Programme: B.Sc**  
**Semester: II**  
**Syllabus with effect from: November-2011**

<b>Paper Code: US02EENV04</b>		<b>Total Credit: 2</b>
<b>Title of Paper: Environmental Science</b>		
<b>Unit</b>	<b>Description in detail</b>	<b>Weightage (%)</b>
<b>I</b>	<b>Environmental Pollution</b> Definition Causes, Effects & Control Measures of Air Pollution Water Pollution Soil Pollution Marine Pollution Noise Pollution Role of Individual in Prevention of Pollution Disaster Management :Flood & Earthquake	25%
<b>II</b>	<b>Social Issues &amp; Environment</b> Form Unsustainable to Sustainable Development Sustainable Development: Definition & Importance Climate Change: Global Warming, Acid Rain, Ozone Layer Depletion Resettlement & Rehabilitation of People its Problems & Concerns Case Studies. Water Conservation & Rain Water Harvesting Introduction to Environmental Laws. Environment Protection Act Forest Conservation Act Introduction to Environmental Impact Assessment.	25%
<b>III</b>	<b>Human Population &amp; Environment</b> Population Growth, Variation Among Nations Population Explosion Population in India, Problems Related of Overpopulation, Remedial Measures Family Welfare Program. Women & Child Welfare in India. Environment & Human Health: Environmental Factors & Human Diseases- Air Borne Diseases, Water Borne Diseases, Food Borne Diseases AIDS: Infection of HIV, Transmission & Prevention, Treatment, Epidemiology. Role of Information Technology in Environment & Human Health.	25%
<b>IV</b>	<b>Wild Life Management</b> Concept of Wildlife Management Wild Life of Gujarat Threatened Specices of Gujarat Distribution, Habitat, Behavior, Description, Food Population of Asiatic Lion, Sloth Bear, Wild Ass, Pangolin, Black Buck. Protected Areas Network: National Parks, Sanctuaries. Wildlife Protection Act. Concept of Wildlife Conservation Indian Board of Wild Life (IBWL) & Its Functions. Special Projects of Endangered Species: Project Tiger, Project Elephant, Crocodile Breeding Project	25%



### **Basic Text & Reference Books:**

- Ecology & Environment by P D Sharma
- Fundamentals of Ecology by E P Odum
- Ecology by Mohan P Arora
- Fundamental of Ecology by M C Dash
- Environmental Science by Dr Y K Singh
- Environmental Science by S C Santra
- Environmental Studies by R Rajagopalan
- A Text book of Environmental Studies by D K Asthana & M Asthana
- Environmental Studies by Manoj Tiwari, Kapil Khubel & Archana Tiwari.
- Environmental Chemistry by A k Dey

