

**SARDAR PATEL UNIVERSITY**  
**Programme & Subject: B.Sc (Environmental Science)**  
**Semester: VI**  
**Syllabus with Effect from: November-2013**

<b>Paper Code: US06CENV06</b>	<b>Total Credit: 3</b>
<b>Title of Paper: Environmental Issues &amp; Legislation</b>	

Unit	Description in detail	Weightage (%)
I	<p><b>Environmental Impact Assessments (EIA) and ISO</b>  <b>EIA:</b> Concept, Procedures, Evaluation methodology of EIA, Scope studies for EIS, preparation of EIS, Review of EIS, Risk assessment.  <b>ISO:</b> Introduction to ISO 14000, Structure of ISO 14000 Systems, Impact of ISO14000 on Developing Countries, Life Cycle Assessment- Concept and stages in Life cycle Analysis,  Environmental Auditing-Concept, Setting up an Audit program, Typical Audit process, carrying out an audit, benefits of Environmental Audit, Environmental Audit program in India.</p>	25%
II	<p><b>Global Environmental Issues</b>  Global warming, Green House Effect, Green House Gases, Environmental Effect of Global Warming, Ozone Depletion, Mechanism, Anthropogenic damage to Ozone layer, impact of Increased UV radiation, Copenhagen summit, Berlin Mandate, Kyoto Protocol  <b>Global Climate change:</b> Climate change and society, Pollution and climate variability, Climate change and economy, Climate change and water- El Nino, its impact on climate, case studies, Programs related to El Nino, La Nina</p>	25%
III	<p><b>Environmental Legislation: Status in India</b>  Some Indian Environmental Laws  The water (Prevention and Control of Pollution) Act, 1974  The Air (Prevention and Control of Pollution) Act, 1981  Environmental Protection Act, 1986  Hazardous Waste (Management and Handling) Rules, 1989,  The Biological Diversity Act, 2002</p>	25%
IV	<p><b>Environmental Movements and Environmental Organizations</b>  <b>Major Environmental movements in India:</b> The Chipko Movement, Silent Valley Movement, Appiko Movement, Narmada Bachao Andolan, Tehri Dem conflict, International conferences / agreements/ summits on environment and climate change  <b>Environmental Institutions:</b>  United Nations Environmental Program (UNEP)  International Union for Conservation of Nature and Natural Resources (IUCN)  World Wild Life Fund (WWF)  US Environmental Protection Agency (EPA)  Global environmental Agreements - Ramsar Convention, Stockholm Conference, Earth Summit  Indian Environmental Bodies: MoEF, Central Pollution Control Board, Gujarat Pollution control Board</p>	25%



