

**SARDAR PATEL UNIVERSITY**  
**Programme: BSC (BOTANY)**  
**Semester: VI**  
**Syllabus with effect from: November 2013**

<b>Paper Code:</b> US06CBOT04	<b>Total Credit: 3</b>
<b>Title Of Paper:</b> Environmental Biology	

Unit	Description in detail	Weighting (%)
<b>1</b>	Environment: Bioremediation and its need Merits and Scope Approaches of Bioremediation Ecology of Bioremediation Technology of Bioremediation Current status Field scale Application	
<b>2</b>	Pollution Environmental pollutants Cost of pollution types of pollution - Air pollution, Water pollution Air and water pollution control through law.	
<b>3</b>	Global warming & climate change Strategies of conservation Factors affecting climate change Biotechnology & its Application in environmental protection Technological advances	
<b>4</b>	Biotechnology & pollution control Biological de-odorisation Biological purification of contaminated air Environmental education - goals, objective & guiding principles Environmental education in India Environmental organizations & Agencies Indian environmental laws.	

**Basic Text & Reference Books:**

- Ecology and Environment - By P. D. Sharma
- College botany- volume I - By Gangulee, Das & Datta
- Fundamentals of ecology - By Eugene P. Odum (Third edition)
- Environmental pollution- By S. Chard, R. K. Khitoliya
- A Textbook of Environmental chemistry and pollution control - By S. S .Dara.

