

# SARDAR PATEL UNIVERSITY

Programme: B.Sc (Chemistry)

Semester: IV

Syllabus with effect from: November/December-2012

<b>Paper Code: US04ECHE05</b>	<b>Total Credit:</b>
<b>Title Of Paper: Industrial Pollution, Its Control &amp; Industrial Safety</b>	

<b>Unit</b>	<b>Description in detail</b>	<b>Weighting (%)</b>
I	Atmosphere, Eco-System and Air Pollution, Sources and Effect of Air Pollutants, Green House Effect, Air Pollution control Technique.	
II	Water Pollution and its source, Types of water pollutants and their adverse effects, Waste water treatment, BOD and COD tests, Pesticide Pollution and sound pollution.	
III	Solid Waste Management, Collection and Disposal of solid waste, Radio activity and Radiation Pollution, Pollution Statutory limits.	
IV	Industrial hazards, Safety consideration in chemical industries, Chemical, Electrical and mechanical hazards, Fire and explosion hazard, Health hazard, Laboratory Safety, Safety Practice, Factory acts.	

## Basic Text & Reference Books :-

- Environmental Chemistry, B. K. Sharma (Krishna Prakashan Media (P) Ltd., Meerut).
- Environmental Pollution Control Engineering, C. S. Rao (Wiley Eastern Ltd., New Delhi)
- Engineering Chemistry, Jain and Jain ( Dhanpat Rai and Sons)
- Introduction to Environmental Engineering and Science, G. M. Masters
- Environmental pollution, H.N.DIX (J.W & Sons).
- Chemical technology, Vol I, D.Venkateshwaraly (C.Chand & co)

