SARDAR PATEL UNIVERSITY

Programme & Subject: M.Sc (Polymer Science & Technology)

Semester: IV Syllabus with Effect from: November/December-2013

Paper Code: PS04CPST11	Total Credit: 4
Title Of Paper: Industrial Hygiene & Safety	Total Credit: 4

Unit	Description in detail	Weightage (%)
I	Concept of Industrial safety, Accident causes & prevention, Safety committee	25%
	and policies, Accident Investigation and Analysis.	
II	Types of chemical hazards and control, Control techniques, Process flow chart	
	and its importance for safety inspection, Interpretation, use and training of	25%
	MSDS,UN,HAZCHEM classification of chemicals, chemistry of fire.	
III	Transportation of hazardous chemicals, storage hazards and controls, hazards	
	& control in unit processes and unit operations. safety work permit, safety of	/ 3%
	pipe lines, transportation of hazardous chemicals, safe start up & shut down	
	procedures, emergency shut down.	
IV	Personnel protective equipments, house keeping, toxicology.Safety in	25%
	Chemical Industry: General; Type of chemical hazards	23%

Basic Text & Reference Books:-

- > Accident prevention manual for industrial operations, national safety council, Chicago, 10th edition.
- Safety and accident prevention in chemical operation, 2nd edition, Howard H.,
- ➤ Handbook of occupational safety and health, Lawrence S.
- > MSDS, your guide to chemical safety
- Engg design for control of work place hazards, Richard A.
- > Safety managers Handbook, J.J.Keller and Associates Inc. USA.
- > Sup ervising safety for Hazardous Processes, Dr.K.U.Mistry, Safety Health and Environment Association, 1st edition.

