

SARDAR PATEL UNIVERSITY
Programme & Subject: B.Sc (Industrial Chemistry-Vocational)
Semester: VI
Syllabus with Effect from: November-2013

Paper Code: US06CICV02	Total Credit: 3
Title of Paper: Heavy & Fine Organic Chemicals	

Unit	Description in Detail	Weightage (%)
I	Fischer-tropsch synthesis- Examples, Chemicals derived from acetylene, properly alcohol, 1, 4-butanediol, acrylates, vinyl esters, vinyl chloride. Pyridine picolines, phenol, acetone, resprcinol, phthallic anhydride,	25%
II	Raw materials, flow chart, effluent management, kinetics and uses of Triphenyl phosphine, alkyl phosphates, Glycerol, sorbitol, melamine, formaldehyde, formic acid.	25%
III	Chlorination of methane: Methyl chloride, dichloromethane, chloroform, carbon tetrachloride. Ethanolamine, mono, di, and tri- ethanolamines, dialkylaminoethanols (dimethyl, diethyl).	25%
IV	Alkylamines: Methylamine, ethylamine, di, tri - alkylamine (methyl, ethyl), butylamines, propyl amines Specialty & industrial solvents: DMF, DMSO, Sulfolane, Alkylpyrrolidone, THF, Dibutyl ether, diethyl ether, dimethoxyethane, dioxane.	25%

Basic Text & Reference Books:

- Applied Organic Chemistry, Kilner E. and Samuel.D.M.MacDonald and Evans Ltd.,
- Unit process in Organic Synthesis. P.H. Groggine, McGraw Hill Kogakusin Ltd.
- Heavy organic chemicals, A.J.Saite, Pargaon Press, U.K.

