

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Industrial Chemistry)
Semester: IV
Syllabus with Effect from: June - 2015

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| Paper Code: PS04CICH12 | Total Credit: 4 |
| Title Of Paper: Technology of Chemical Process Industries | |

| Unit | Description in Detail | Weightage (%) |
|---|--|---------------|
| Overview and study of following group of Chemical industries with respect to their classification, raw materials, chemistry and production technology | | |
| I | Pigment Industry | 25% |
| II | Surface Coating Industry 1: Binders-Vegetable oil, oleo resinous media, alkyd resins, oil free saturated poly ester resins, amino resins, phenolic resins, | 25% |
| III | Surface Coating Industry2: urethane resins and epoxy resins solvents: classification, solvency ratings additives for surface coating industry | 25% |
| IV | Fertilizers & Agrochemical Industries | 25% |

Basic Text & Reference Books:-

- Hand book of Industrial Chemicals, Vol 1 & 2, K.M.Shah, Multitech pub.
- Encyclopedia of Chemical Technology, By Kirk and Othmer
- Handbook of Pigments, K. M. Shah, Multitech pub.
- Surface Coatings, Vol. 1 & 2, Oil & Color chemist association(OCCA), Australian Champman & Hall Pub.
- Chemical Process Industries, Edited By R N Shreve, McGraw Hill Pub.
- Handbook of Fertilizer Technology, B.K.Jain, B.Swaminathan, The fertilizer association of India, New Delhi.

