

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Surface Coating Technology)
Semester: IV
Syllabus with Effect from: June - 2010

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| Paper Code: PS04CSCT02 | Total Credit: 4 |
| Title Of Paper: Technology of Printing Inks & Heavy Duty Protective Coatings | |

| Unit | Description in detail | Weightage (%) |
|------|---|---------------|
| I | The different Printing Processes - their merits and demerits. | 10% |
| II | Different types of Inks, manufacture of Inks, Quality Control of Inks, Specialty Inks. Methods of Ink drying; Behavior of Inks on machines; Trouble shooting in various printing processes; Storage stability of Inks | 40% |
| III | Corrosion; Technology of Heavy Duty Protective Coatings for structures in corrosive environments, Technology of Marine coatings | 50% |

Basic Text & Reference Books:-

- Surface coating Technology Vol II, OCCA, Chapman and Hall, London & New York.
- Technology of Printing Inks, E.A. Apps
- “Paints and surface coatings -Theory & Practice”, 2nd ed., R. Lambourne & T.A. Stevens, William Andrew Publishing, 1999.
- “Printing Ink Manual”, 5 ed., Leach, 1993
- Chemistry and Technology of water based Inks, 1st ed., LADEN, Blackie Academic & Profe., 1997
- Protective Coatings for Metals, E.J. Vaughan & J.W. Gailer
- Protective Paint coatings for metals, Fraunhofer and Boxall, Particullis Press Ltd, 2 Queensway, Surey, England.
- Organic Coatings, Science and Technology, vol 2, WICKS.
- Basics of Paint Technology, Vol I, 1st ed., V.C. Malshe, 2000

