

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

Paper Code: US06CICV01	Total Credit: 3
Title of Paper: Dyes & Intermediates	

Unit	Description in Detail	Weightage (%)
I	Introduction, Classification of Dyes on the basis of mode of applications to the fibers and chemical constitution of the Dyes. Applications of Dyes to fibers, colour shades and fastness properties.	25%
II	Chemistry of the following dyes with respect to general structural features and classification: Introduction, Classification and applications of Azo dyes, Acid dyes, Basic dyes and Mordant dyes.	25%
III	Introduction, classification and applications of Anthraquinone (VAT) dyes, Indigoid dyes. Disperse dye, Reactive dyes.	25%
IV	Analysis and application of dyes and dye intermediates: Analysis of intermediates different methods used in the analysis. Nitrite value determination, coupling value, titanous chloride reduction, halogen content determination, etc.	25%

Basic Text & Reference Books:

- LUBS Chemistry of synthetic dyes and pigments, R. E. Krieger Publishing Company.
- Dyeing and Chemical technology of textile fibres, E. R. Trotman.
- Development in the Chemistry and Technology of Organic Dyes, J. Driffths, Society of Chemicals Industry, Blackwell Scientific Publications.
- The chemistry of Synthetic Dyes, K. Venkateraman, Academic Press, Vol. I-III.
- The analytical Chemistry of Synthetic Dyes, K. Venkateraman, John Wiley, New York.
- A Laboratory Course in Dyeing, C.H. Gites, The society of Dyes and Colourists.
- The Dyeing of Synthetic polymers and acetate fibres, D.M. Nunn, Dyers Company Publishing Trust.
- Dyes and Their Intermediates, H.A. Abrahert, Pergaman Press.
- An introduction to synthetic Dyes, D.M. Rangnekar and P.P. Singh Himalaya Publication, Bombay.

