

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. SEMESTER : VIII

TEXTILE PRODUCTION

Subject Name: **TECHNOLOGICAL ADVANCES IN TEXTILE PROCESSING**

Sr. No.	Course Contents	Total Hrs
1.	Technological Advances In Dyeing Process Such As Electrochemical Dyeing, Space Dyeing, Foam Dyeing, Super Critical Carbon Dioxide, Solvent Dyeing Etc.	06
2.	Applications Of Biotechnology In Various Unit Operations Of Wet Processing.	06
3.	Applications Of Micro encapsulation In Various Textile Processing Operations.	06
4.	Applications Of Ultra Sound And Plasma Technology In Textile Processing.	06
5.	Applications Of Nanotechnology In Textile Processing.	06
6.	Recent Developments In Technological Advances.	06

Text Books:

Sr. No.	Title	Author
1.	Handbook Of Technical Textiles	A R Horrocks & S C Anand
2.	Reference Book Of Textile Technologies – Finishing	Pietro Bellini, Ferruccio Bonetti, Ester Franzetti , Giuseppe Rosace , Sergio Vago

Reference Books:

Sr. No.	Title	Author
1.	Handbook Of Natural Colorants	Thomas Bechtold And Rita Mussak
2.	Plasma- Spray Coating	Robert B. Heimann
3.	Applied Surfactants -Principles And Applications	Tharwat F. Tadros
4.	Biologically Inspired Textiles	A. Abbott And M. Ellison
5.	Introduction To Nanotechnology	Charles P. Poole, Jr. Frank J. Owens
6.	Encyclopaedia Of Textile Finishing	Hans-Karl Rouette
7.	Textile Processing With Enzymes	A. Cavaco-Paulo And G. M. Gübitz