

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. SEMESTER: V

TEXTILE TECHNOLOGY

Subject Name: **Modern Yarn Production**

Subject Code: **152904**

Teaching Scheme				Evaluation Scheme		
Theory	Tutorial	Practical	Total	University Exam (Theory) (E)	Mid Sem Exam (Theory) (M)	Practical (I)
4	0	0	4	70	30	50

Sr. No.	Course content
1.	New techniques for yarn production, e.g. systems like Friction spinning, Parallel yarn spinning and O E. spinning, Detailed study of spin box, Piecer, Informator and yarn clearing system in O.E. spinning, Air jet spinning.
2.	Texturising: Development and properties of texturised yarn, Different methods of producing texturised yarn like False twist texturing, Airtexturing and mechanical air texturing, Draw texturing process.
3.	Introduction of compact yarns.
4.	Tow to top conversion systems - Cutting method and stretch breaking method.
5.	Processing of polyester and its blends with cotton and viscose in spinning.
6.	Processing of lycra and its blends with cotton in spinning.
7.	Recent developments.

Reference Books:

1. Spinning in '70s, P. Lord.
2. Rotor Spinning, Dyson.
3. Open-end spinning, R. Nield.
4. Rotor Spinning, Lawrence.
5. Textile Yarns, Goswami & Martindale.
6. Manmade Fibre Production, G. R. Wray.
7. Modern Spinning Systems, W. Klein Vol.- V.