

GUJARAT TECHNOLOGICAL UNIVERSITY

TEXTILE TECHNOLOGY

B. E. SEMESTER: VII

Subject Name: **Modern Spinning Technology**

Subject Code: **172901**

Teaching Scheme				Evaluation Scheme			
Theory	Tutorial	Practical	Total	University Exam (E)		Mid Sem Exam (Theory) (M)	Practical (Internal)
				Theory	Practical		
3	0	2	5	70	30	30	20

Sr. No.	Topic	Total Hrs	Text Book
1	Open End Spinning : Fibre separation & fibre transfer, Fibre collection & twist inspection, Yarn tension in open end spinning	5	Modern Spinning Systems –W.Klein Vol.V
2	Limitations & Problems in rotor spinning machines, Automation ,Latest developments in rotor spinning	5	New spinning systems- R.V.Mahendra Gowda (NCUTE)
3	Air jet spinning: Yarn structure, Murata vortex spinning, Principle of MVS, structure of MVS, comparison of MJS & MVS	8	New spinning systems- R.V.Mahendra Gowda (NCUTE)
4	Friction spinning system: principle, DREF1, DREF2, DREF3, DREF5, DREF2000, DREF3000, Technical description	7	New spinning systems- R.V.Mahendra Gowda (NCUTE)
5	Siro spinning, Cover spinning, wrap spinning, twist less spinning	8	New spinning systems- R.V.Mahendra Gowda (NCUTE)
6	Detail study of compact yarns like ROCOS, Elite, COMFOR spinning	6	New spinning systems- R.V.Mahendra Gowda (NCUTE)
7	Modern developments in spinning	6	Company / manufacturer brochures & Web sites.

Reference Books:

1. Spinning in '70s –P.Lord
2. Rotor Spinning- Dyson
3. Open-end spinning- R.Nield
4. Rotor Spinning- F.A. Lawrence
5. Modern Spinning Systems –W.Klein Vol.V
6. New Spinning Systems - R.V.Mahendra Gowda (NCUTE)