

# GUJARAT TECHNOLOGICAL UNIVERSITY

## B. E. SEMESTER: V TEXTILE TECHNOLOGY

Subject Name: **Yarn Manufacturing – III**

Subject Code: **152901**

Teaching Scheme				Evaluation Scheme		
Theory	Tutorial	Practical	Total	University Exam (Theory) (E)	Mid Sem Exam (Theory) (M)	Practical (I)
4	0	2	6	70	30	50

Sr. No.	Course content
1.	Theory of yarn tension at ring frame, Methods of maintaining uniform yarn tension at ring frame, Balloon control and methods to control balloon shape.
2.	Detailed study of ring frame mechanism with waste collecting system, Over head travel system, Inverter, Servo drive.
3.	Detailed study of ring, traveller, spindle, cots and aprons.
4.	Drafting systems, A detail study of various drafting systems employed at ring frame and recent modifications in its design.
5.	Compact yarn and auto doffing in detail.
6.	Various systems of doubling the yarn.
7.	Production of folded yarns and their uses, Production of sewing threads, Two-for-one twisting.
8.	Production of fancy yarns, multi- count, multi- twist and slub yarn with their uses.
9.	Calculations.
10.	Recent developments.

### **Practical:**

Based as per the syllabus prescribed.

### **Term Work:**

This shall consist of record of practicals work done during practicals and recorded in the journals.

## **Reference Books:**

1. Theory of Ring spinning, W.Klein, Vol . IV.
2. Essential facts of cotton spinning, T.K.Pattabhiram.
3. Developments in Ring spinning & doubling, NCUTE.
4. Essential s of Cotton spinning, Salhotra.
5. Practical calculations in spinning, T. K. Pattabhiram.
6. Spinning calculations, H.R.Shreenivasmurthy