

# GUJARAT TECHNOLOGICAL UNIVERSITY

## TEXTILE TECHNOLOGY

### B. E. SEMESTER: VII

Subject Name: **Production Planning & Maintenance**

Subject Code: **172903**

Teaching Scheme				Evaluation Scheme			
Theory	Tutorial	Practical	Total	University Exam (E)		Mid Sem Exam (Theory) (M)	Practical (Internal)
				Theory	Practical		
3	0	0	3	70	0	30	50

Sr. No.	Topic	Total Hrs
1	Introduction to production planning equations for weaving department. Formula for production calculation in winding, warping, sizing and pirn winding departments.	3
2	Formula for reed and ends calculation. Production calculation for shuttle and shuttleless weaving machines.	3
3	Production planning for the weaving department. Multi sort working in the weaving shed, allocation of looms. Production planning for winding, warping, sizing and pirn winding department. Preparation of Production Schedules for warp and weft yarns.	12
4	Creel arrangement for coloured warp on sectional warping and related numerical.	3
5	Introduction to production planning equations for ring spinning department. Formula for production calculation in ring frame, speed frame, draws frame, comber, carding and blow room.	3
6	Production planning for the ring spinning department. Production planning for ring frame, speed frame, draws frame, comber, carding and blow room.	11
7	Production planning for the OE spinning department. Production planning for OE Spinning, draws frame, carding and blow room.	4
8	Production planning for the texturising department. Production planning for texturising and TFO.	2
9	Theory of Maintenance. Various types of maintenance. Maintenance check points for all departments from Blow room to loom shed.	3

### Reference Books:

1. Weaving Calculations- Sengupta
2. Spinning Calculations - H.V.Sreenivas Murthy
3. TABLETS on all department of Spinning and weaving - Textile Association (India)