

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**TEXTILE TECHNOLOGY**  
**B. E. SEMESTER: VII**

Subject Name: **Process & Quality Control in Spinning**

Subject Code: **172904**

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	Text Book
1	Consideration in evolving a system for process control	3	Process control in spinning –A.R.Garde & T.A.Subramanium, ATIRA
2	Control of mixing quality and cost by HVI, Control of short fibres, neps and fibre rupture.	5	Process control in spinning –A.R.Garde & T.A.Subramanium, ATIRA
3	Control of Yarn Realization: records & accounting	3	Process control in spinning –A.R.Garde & T.A.Subramanium, ATIRA
4	Control of waste & cleaning in blow room & carding	4	Process control in spinning –A.R.Garde & T.A.Subramanium, ATIRA
5	Control of comber waste	4	Process control in spinning –A.R.Garde & T.A.Subramanium, ATIRA
6	Introduction to High Volume Instrumentation- AFIS PRO. Bale Management etc.	3	Cotton Fibre Selection & Grading SITRA
7	Optimization of Quality and Quantity with respect to cost of yarn.	3	Quality Control in Spinning SITRA
8	Control of Yarn Quality: Count, strength, & their variability, RKM, Elongation and Classimat faults.	5	Process control in spinning –A.R.Garde & T.A.Subramanium, ATIRA

9	Control of Yarn Quality: Yarn unevenness & imperfection. Productivity Indices of mill. Means to improve productivity.	6	Process control in spinning –A.R.Garde & T.A.Subramaniam, ATIRA
10	Yarn faults & package defects e.g. hairiness	5	Process control in spinning –A.R.Garde & T.A.Subramaniam, ATIRA
11	Use of modern instruments in process control.	2	Quality Control in Spinning SITRA
12	Implementation of process control in cotton spinning.	3	Process control in spinning –A.R.Garde & T.A.Subramaniam, ATIRA

### **Reference Book:**

1. Processing of manmade and blend on cotton spinning systems-K.R.Salhotra