

VEER NARMAD SOUTH GUJARAT UNIVERSITY

B.E. IV (TEXTILE TECHNOLOGY) Semester -VII

TT - 703 PROCESS CONTROL IN SPINNING

Teaching Scheme : (No. Of Contact Hrs.)			Theory Exams		Prac./Quiz/Viva/Exam		Grand Total
Theory	Tut.	Pract.	Duration (Hrs)	Marks	Sem. End Exam.	Cont.Int. Evaluation	
4	-	2	3	100	30	20	150

Theory:

1. Need for development of norms, Establishment of norm/standard, its significance.
2. Importance of Mixing, Control of mixing quality and cost.
3. Yarn realisation & it's importance. Control of yarn realisation - records and accounting.
4. Classification of Cotton waste, Resources of waste & its users.
5. Control of wast in various spinning departments.
6. Measurement and analysis of productivity.
7. Factors affecting yarn quality-count,strength and their viability.
8. Measurement of Unevenness and imperfections. Study of uster & CV% values.
9. Yarn faults and package defects & their remedial measures.
10. Machinery audit.

References:

- (1) ATIRA : Process Control in Spinning, ATIRA, 1987.
- (2) ATIRA/BTRA: Combined norms for Textile Industry, NITRA,/SITRA/NITRA.
- (3) BTRA :Spinning Productivity & methods of evaluation,1990
- (4) SITRA : Norms for the spinning mills, 1996

PROCESS CONTROL IN SPINNING

LIST OF PRACTICALS

1. To check the lap rejection & C.V. % of full lap.
2. To check the C.V. % of 1mt.wrapping of lap.
3. To check the C.V.% of carded sliver.
4. To check the C.V.%of drawn sliver.
5. To check the C.V.%of roving.
6. To check the noil % at comber.
7. Study of breaks at speed frame.
8. Study of end breaks at ring frame.
9. To check the C.V. % of yarn count.
10. To check the twist level of ring spun yarn .
11. To study breaks at doubler frame.
12. To check the resultant count of doubled yarn.
13. To check the twist level of doubled yarn.
14. To, study the breaks at open end (rotor) spinning machine.