

VEER NARMAD SOUTH GUJARAT UNIVERSITY

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

TT - 701 POST SPINNING OPERATIONS FOR MMF

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. Factors influencing drawability. Influence of drawing on structure and properties of fibres.
2. Methods used for orientation stretching- single stage, multistage, drawing. Drawing defects and remedies.
3. Heat-setting of fibres. Influence of heat-setting variables on structure and properties of fibres.
4. Need for crimping (Texturising). Crimping methods. Manufacture of high shrink fibres.
5. Twisting of continuous filaments. Uptwisters and two-for-one twisters. Twist setting. Modern TFO's.

Practical:

This shall be based on the prescribed syllabi.

Term Work:

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

References:

- (1) Goswami B.C, Martindale & Scardino: Textile Yarns, Technology ,Structure & Application, John Wiley & Sons, 1977
- (2) Kulkarni H.S. & Dr.H.V.S. Murthy : Two-For-One, Tecoya Publication,1992
- (3) Mantra: A Guide to crimping / Texturing Tech. Mantra 1990

POST SPINNING OPERATIONS

LIST OF PRACTICALS

(A) REWINDER

1. Study of yarn passage through rewinder.
2. Study of different parts of the machine.
3. Study of drive to the spindle.
4. Study of traverse mechanism.

(B) TWO-FOR-ONE TWISTER FOR FILAMENT YARN

- 1 Study of yarn passage through twister.
2. Study of different parts of the machine.
3. Study of
 - i. drive to the machine.
 - ii. drive to the shaft.
 - iii. drive to over-feed roller.
4. Study of Gear box.
5. Setting of processing parameters for running different deniers.

(C) TEXTURISING MACHINE

- 1 Study of yarn passage through texturising machine.
2. Study of different parts of the machine.
3. Study of drive to different parts of the machine.
4. Detailed study of control panel.
5. Different settings of processing parameters for running various yarns.

(D) Maintenance schedule of above listed machines.