

VEER NARMAD SOUTH GUJARAT UNIVERSITY

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

TT - 702 MODERN WEAVING TECHNOLOGY

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	
3	-	4	3	100	60	40	200

Theory:

1. Different types of shuttleless loom
2. Study in detail of shedding ,picking and beat-up motion of sulzer loom.
3. Detailed study of picking mechanism of Rapier,Airjet and waterjet looms.
4. Circular loom: Multiphase looms;Tri-axial weaving.
5. Techno-economics of modern weaving technique.
6. Calculations.

Practicals:

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) Singh R.B. : Modern Weaving Theory & Practice, Mahajan Publ. 1989.
- (2) Aswani : Fancy Weaving Mechanisms, mahajan Publ. 1990
- (3) Svaty/Talavasek:Shuttleless Weaving Machines,STNL Publ. Netherlands,1981

MODERN WEAVING TECHNOLOGY

LIST OF PRACTICALS

(A) AIRJET LOOM

1. Study of warp yarn passage through loom.
2. Study of different parts of loom.
3. Study of Shedding motion.
4. Study of Picking mechanism.
5. Study of Beat-up motion.
6. Study of let-off mechanism.
7. Study of Cloth take-up mechanism.
8. Study of air supply system to the loom.
9. Study of Stop motions on loom.
10. Study of Weft accumulator.

(B) RAPIER LOOM

1. Study of warp yarn passage through loom.
2. Study of different parts of loom.
3. Study of Shedding motion.
4. Study of Picking mechanism.
5. Study of Beat-up motion.
6. Study of let-off mechanism.
7. Study of Cloth take-up mechanism.

(C) SULZER PROJECTILE LOOM

1. Study of warp yarn passage through loom.
2. Study of different parts of loom.
3. Study of Shedding motion.
4. Study of Picking mechanism.
5. Study of Beat-up motion.
6. Study of let-off mechanism.
7. Study of Cloth take-up mechanism.

(D) Calculations pertaining to above looms.

(E) Fabric formation on above looms.