

VEER NARMAD SOUTH GUJARAT UNIVERSITY

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

TT - 705 NON-WOVEN,GEO-TEXTILES AND CARPET WEAVING

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	-	-	3	100	-	-	100

Theory:

(A) Non-Woven Textiles

1. Terminology, history and definitions.
2. Structure and classification of non-woven fabrics. Staple Fibre webs, Continuous Filament webs.
3. Characteristic feature and properties of non-woven, raw materials for non-woven fabrics.
4. Production Technology of non-woven using different processes.
5. Laminated fabrics or laminates and disposable non-woven fabrics.
6. Moulded fabrics and other processes of non-wovens. Composite Fabrics.
7. Application of non-woven bonded fabric.

(B) Geo-Textiles

1. Role of Geo-Textiles: History and development.
2. Types of Geo-Textiles.
3. Application of Geo-Textiles in various fields.

(C) Carpet Weaving

1. Raw materials for Carpet Weaving, Additional Carpet yarns & fibres.
2. Different production techniques for Carpet weaving.
3. Important properties of Carpet Backings.

References:

1. Purdy : Needle punching (No.3), The Textile Institute, U.K.1980
2. Dharmadhikary : Thermal bonding non-woven fabrics
The Textile Institute, U.K.1996
3. Cegiělka : Carpets-back to front, The Textile Institute, U.K. 1988