

Subject : Textile Testing

Paper No – TT (407)

FE – 4

Objectives:

To acquaint students with the knowledge of fiber, yarn and fabric properties and their measurements.

Theory

Unit – 1 Introduction to textile testing.

Importance of textile testing.

Definition to textile testing.

Sampling.

Unit – 2 fiber testing

Fiber dimensions and their management.

Measurement of length, staple length, effective length.

Unit – 3 Yarn testing.

Yarn characteristics and their measurements.

Twist, crimp, strength.

Yarn numbering systems – tex, denier, count.

Unit – 4 Fabric testing

Fabric count.

Fabric thickness and fabric weight.

Bow and skewness, Dimensional stability.

Tensile strength and tear strength.

Color fastness of fabric.

Air permeability.

Fabric stiffness.

Percent moisture content and moisture regain.

Introduction to drapability and Abrasion resistance.

References

- Booth, J.E. (1968): Principles of textile testing, Butterworth Heinemann Ltd. U.K. or CBS Publishers and distributors, 4596/1A, 11Darya Ganj , New Delhi – 110002, 1996.
- Grower and Hanby (1969) : Handbook of textile testing and quality control.
- Indian standards institute (1982) : Handbook of textile testing.
- Shinkle John H. : Textile testing chemical publishing co. inc. Brooklyn, New York.