

PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Textile Engineering

Faculty Name: - Dr R K Baldua

Subject Name: - TEXTILE TESTING -II

Year/Semester: - 3rd/6th

Subject Code: - PCC-TEX-302A

Unit No.	Topic of the Lecture	Hours	Total Hours
Unit I	Importance of fabric testing, scope of fabric testing	1	12
	Thickness, crimp and weight-significance, effect on fabric properties and measurement methods	2	
	Cover factor-Definition, significance & derivation cover factor	1	
	Abrasion Resistance of fabrics-Def., Factors affecting and assessment of abrasion damage	1	
	Abrasion Resistance -Methods of measuring and evaluation of results	2	
	Fabric Pilling, Concept, mechanism, factors affecting and methods of assessment.	2	
	Creasing and crease recovery- Concept, mechanism, factors affecting and methods of assessment	2	
	Revision and doubt clearing	1	
Unit II	Fabric strength testing introduction	1	10
	Factors affecting the results of tensile testing	1	
	Principles and operation of tensile strength testing equipments	2	
	Tensile, tearing and bursting strength test methods	3	
	Evaluation and interpretation of tensile test results	2	
	Revision and doubt clearing	1	
Unit III	Fabric comfort properties introduction	1	15
	Importance and classification of comfort properties	2	
	Fabric porosity and air permeability-Concept, Importance, factors affecting and relation between these two	2	
	Fabric porosity and air permeability- Methods of testing	2	
	Water –fabric relation-Concept, importance, moisture transport and fabric wettability	1	
	Water proofing and water repellency testing	1	
	Methods of objective assessment of fabric handle	1	
	Kawabata system of testing	2	
	Fast system of testing	2	
	Revision and doubt clearing	1	
Unit IV	Measurement of seam pucker, seam slippage and seam strength	2	12
	Testing of fusible Interlinings, zippers waistband, waistband,	1	
	Testing of elastic waistband, sewing threads,	1	
	Testing of buttons, snap fasteners.	1	
	Statistical quality control in Textiles - Concept of quality, quality assurance.	1	
	Concept of reproducibility and repeatability.	1	
	Methods pertaining to fibre, yarn and fabric testing.	1	
	International quality parameters & standards like USTER standards & AATCC	1	
	International quality parameters & standards like JIS and ASTM.	1	
	Revision and doubt clearing	1	
University Question Paper Discussion	1		