

PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Textile Engineering

Faculty Name: -Ms. Agya Preet

Subject Name:-Fabric Structure & Design

Year/Semester:-3rd/5th

Subject Code: PCC- TEX-307A

Lesson Plan

Unit No.	Topics to be covered	Hours	Total Hours
Unit I	Element of colour, Physical basis of Color	1	12
	Light and color phenomenon	1	
	Complementary colors and color measurements	1	
	Attributes of primary and secondary color	1	
	Color Contrast, color harmony	1	
	Methods of color Application	1	
	General passage of material through loom	1	
	Classification of Woven Structure, Basic elements of woven design	1	
	Method of notation of structure or design, weave repeat	1	
	Types of draft plans	2	
	Selection of reed and its importance in fabric design.	1	
Unit II	Plain weave and derivatives- warp rib, weft rib, matt, hopsack, fancy matt, stitched hopsack Classification of plain cloth	4	11
	Twill weave and derivatives- zig-zag, herringbone, broken, transpose, and rearrange twills on sateen base, combined, steep and flat twill, diamond, effect of twist on prominence of twill lines, characteristics of twill weave.	5	
	Fabric set calculation, Yarn and cloth relationships- GSM Calculation	2	
Unit III	Sateen & Satins, Crepe weaves, Mock-leno, Cork screw, Honey-comb	5	10
	Huck-a-back, Bed ford cord, Welt and pique fabrics.	5	
Unit IV	Extra warp and weft figuring,	2	16
	Velvet and Velveteen	2	
	Backed fabric	2	
	Double cloth classification	2	
	Stitched double cloth	2	
	Wadded double cloth	2	
	Belting structures	2	
	Narrow Label weaving	2	