

**PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY**

**Department of Textile Engineering**

Faculty Name: Astha  
Year/Semester: VI<sup>th</sup>/ 3<sup>rd</sup>

Subject Name: Knitting Technology  
Subject Code: TT-308N

Unit No.	Topic of the Lecture	Hours	Total Hours
<b>Unit I</b>	Introduction to Knitting	1	<b>9</b>
	Difference between woven and knitted products and process	2	
	Classification of Knitting Machines	1	
	Terms and Definitions used in knitting	2	
	Elements of knitting: needles, sinker and cam.	2	
<b>Unit II</b>	Basic weft knitted structure	1	<b>18</b>
	Structure and properties of Plain	2	
	Structure and properties of Rib	2	
	Structure and properties of Purl	2	
	Structure and properties of Interlock.	2	
	Machine and mechanism of plain	2	
	Machine and mechanism of rib	2	
	Machine and mechanism of purl	2	
	Machine and mechanism of interlock fabric production.	2	
	Introduction to Tuck & Float loops.	1	
<b>Unit III</b>	Production calculation. Calculation of Areal density	1	<b>8</b>
	Fabric width, Fractional cover	1	
	Tightness factor and mass per running meter.	1	
	Knitted fabric relaxation and shrinkage, Values of Kc, Kw & Ks.	1	
	Yarn property required for knitting.	2	
	Control of yarn tension during knitting	2	
<b>Unit IV</b>	Comparison between warp knits, weft knits and woven	1	<b>12</b>
	Basic warp knit structures	1	
	Over lap, under lap, closed lap, open lap	1	
	Knitting cycle in Tricot Knitting machine	2	
	Knitting cycle in Raschel knitting machine	1	
	Five Basic overlap, under lap variations	2	
	some warp knitted structures like, loop raised	1	
	satin, lock knit,	1	
	two bar tricot, reverse locknit	1	
	shark skin, queens cord,	1	