

# PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

## Department of Textile Engineering

Faculty Name: Astha

Subject Name: Process control in garment

Year/Semester: 7<sup>th</sup>/ 4<sup>th</sup>

Subject Code: PEC-TEX-411A

### LESSON PLAN

UNITS	Topic to be covered	Hours	Total Hours
<b>Unit 1</b>	Automation in Garment Industry-Information Technology in Garment Industry, Information Technology in Garment Industry	2	16
	Microprocessor based machinery in design, pattern making, cutting, sewing, embroidery	8	
	Production planning in garment manufacturing, Production technology – manual and mechanical systems	4	
	Check list sheet, Cost structure in garment manufacturing	1	
	Time and motion study: need improving production efficiency	1	
<b>Unit 2</b>	Stitch application for woven garment, knitted garment, Stitch identification, Application	4	10
	Advantages and disadvantages of different stitches on fabrics, Proper stitch formation, Common seam quality defect: Seam rupture on stretch knits, Seam slippage and Needle cutting, Causes and remedies	4	
	Skipped stitches, Stitch Cracking, Seam puckering: types, major causes and solution to puckering	2	
<b>Unit 3</b>	Sewing Thread selection: Right thread to optimize seam quality, Fiber type, Thread construction, Thread size for sewing threads	3	8
	Advantages of core-spun sewing thread, Quality aspect of industrial sewing thread	2	
	Needle size, needle numbering system, Sewability: Quality parameters for assessing sewability	3	
<b>Unit 4</b>	Quality control aspects of garment exports, Quality systems for garment, The nature of quality costs, Functions of quality assurance and quality control	4	10
	Evaluating care and appearance, evaluating material contribution for quality in garments, Inspection standard for apparel, raw material inspection, Inspection systems, in-process inspection, final inspection	4	
	Comparability checks; Audit inspection, The functions of quality assurance and quality control	2	