



**DIPLOMA IN TEXTILE ENGINEERING
SYLLABUS
PROBIDHAN-2022**

Subject Code	Subject Name	Period Per Week		Credit
5061	Garment Manufacturing - III	T	P	C
		3	3	4

This course will be conducted by: Rifah Nanziba

Learning Outcome (Theoretical):

- To develop understanding and skill and attitude in the field of garments manufacturing with special emphasis
- To know about Interlining, fusing and coating
- To know about Feed mechanism of sewing machine
- To know sewing needles, sewing thread package & working aids
- To know the fault of sewing

Learning Outcome (Practical):

- Design the layout of the apparel manufacturing lab and point out human body measurements.
- To know about Interlining, fusing and coating
- To know about Feed mechanism of sewing machine
- To know how to assess the quality of knit garments.

Detailed Syllabus (Theory)

Unit	Topics with contents
1	Understand the interlining 1.1 Define interlining. 1.2 Mention the classification of interlining 1.3 Describe fusible interlining. 1.4 Mention the advantages of fusible interlining. 1.5 Distinguish between non-fusible & fusible interlining. 1.6 Describe the properties of fusible interlining.

	1.7 Describe the different types of fusible interlining..
2	Understand the fusing 2.1 Define fusing. 2.2 Mention the classification of fusing techniques. 2.3 Describe different fusing machines. 2.4 Describe hand iron & flat bed fusing machine. 2.5 Describe continuous fusing process. 2.6 Describe a high frequency fusing machine. 2.7 Describe different types of fusing. 2.8 Describe the quality control of fusing.
3	Understand the coating 3.1 Define coating. 3.2 Describe the purpose of resin coating. 3.3 Mention the different methods of coating. 3.4 Describe resin coating. 3.5 Describe scatter coating. 3.6 Describe paste coating. 3.7 Describe file coating. 3.8 Describe emulsion coating.
4	Understand the feed mechanism of sewing machines 4.1 Define the feed mechanism of the sewing machine. 4.2 Classify different feed mechanisms of sewing machines. 4.3 Describe the drop feed system. 4.4 Mention the limitation of the drop feed system. 4.5 Describe differential bottom feed system. 4.6 Describe adjustable top feed system. 4.7 Describe needle feed systems. 4.8 Describe puller feed system.
5	Understand the sewing needle 5.1 Describe sewing needles. 5.2 Mention function of sewing needle. 5.3 Describe needle sizing/number. 5.4 Mention the classification of sewing needles. 5.5 Describe the causes of needle breaking during sewing. 5.6 Describe different needle points. 5.7 Describe needle cutting point & cloth point with sketch.
6	Understand the sewing thread 6.1 Define sewing thread. 6.2 Describe the types of sewing thread.

	6.3 Describe the properties of sewing thread. 6.4 Describe metric ticket number system. 6.5 Describe the cotton ticket number system of sewing thread.
7	Understand the sewing thread package 7.1 Define thread package. 7.2 Describe different thread packages. 7.3 Describe spool, cop & cone.
8	Understand the knit fabric 8.1 Mention the yarn properties for making knit fabrics. 8.2 Describe the properties of knit fabric. 8.3 Mention the steps of knit garments production. 8.4 Describe the process of knit garments production. 8.5 Describe different categories of knit garments according to the general production method of knit garments. 8.6 Mention the production sequence of fully cut garments, stitch shaped cut, fully fashioned and integral.
9	Understand the machinery for seaming knit garments 9.1 Mention the constructional features of sewing machines. 9.2 Describe the four bed type variations used in the knit garments industries. 9.3 Mention the general view of dial linking machines. 9.4 Describe stitch forming action of conventional needle linking machine forming single chain stitch.
10	Understand the quality control of knit garments 10.1 Describe knit fabric quality. 10.2 Find the weight per unit area and cover factor (tightness) of knit fabric. 10.3 Describe the causes of different faults of knit garments with their remedies. 10.4 Mention the steps of quality control during the manufacturing of knit garments.
11	Understand of working aids 11.1 Define working aids. 11.2 Function of working aids. 11.3 List of working aids. 11.4 Describe different types of working aids.
	Total Final Marks: 120

Detailed Syllabus (Practical)

Unit	Topics with Contents
1	Produce a sewn interlining.
2	Attach a sewn interlining to a garments component.
3	Attach fusible interlining to a garments component.
4	Determine bond strength of fused interlining.
5	Draw the components of a drop feed mechanism.
6	Disassemble the components and assemble the components of a drop feed mechanism.
7	Draw the diagram of a sewing machine needle and label the names of each part.
8	Draw the diagram of the needle and label different parts of the needle.
9	DRAW THE SEWING THREAD PACKAGES.
10	Prepare knitted fabric.
	Total Final Marks: 25