
Daffodil Polytechnic Institute, Institute Code: 50238

Lesson Plan – Academic session: April 2022 to August 2022

Subject Teacher : Md. Md.Ashikur Rahman (Instructor)
Subject Name : FABRIC MANUFACTURING-I
Subject Code : 1932
Technology : Textile
Semester : 3th Textile
Reference Book : FABRIC MANUFACTURING-I (Publisher: prime Prokashani)

INTENTION

- To develop the basic knowledge regarding preparatory process of fabric manufacture.
- To develop the skill of the students, in weaving preparatory process.
- To familiarize the students, with different types of loom.
- To provide skill on basic concept of knitting.

SHORT DESCRIPTION

Shed; Shedding mechanism; Tappet; Top roller mounting; Picking; Beating up; Take up motion, Let off motion & basic idea of knitting.

Lecture	Chapter	Supporting Equipment	Topic	Benefits
01	Understand fabric	Woven Fabric, Knit Fabric, Non-Woven Fabric	1.1 Classify the fabrics. 1.2 Mention the flow-chart of fabric manufacturing process.	1. To know about fabric. 2. To know type of fabric
02	Understand winding	Projector https://textilechapter.blogspot.com/2016/10/winding-machine-types-classification.html	2.1 Define winding. 2.2 Describe the objects of winding. 2.3 Classify the winding. 2.4 Describe the different types of packages. 2.5 Describe different types of traversing motion. 2.8 Discuss the faults in winding.	1. To know about winding mechanism 2. To know about type winding
03	Understand winding		2.6 Describe different types of yarn tensioning devices. 2.7 Importance of tension in winding 2.8 Discuss the faults in winding.	1. To know about tension device 2. To know about winding faults
04	Quiz Test		First and second chapter	

05	Understand winding machine.	https://textilechapter.blogspot.com/2016/10/winding-machine-types-classification.html	3.1 Describe the features of modern winding machine. 3.2 Describe working principle of cone & pirn winding machine. 3.3 Solve problems related to winding.	1.To know modern winding m/c 2. To know about cone winding and pirn winding machine
06	Understand the warping.	Projector https://textilechapter.blogspot.com/2016/11/warping-requirements-advantage-disadvantage.html	4.1 Define warping. 4.2 Objects of warping. 4.3 Classify the warping. 4.4 Describe beam-warping machine. 4.5 Describe sectional warping machine. 4.6 Mention the different types of faults & their remedies in warping. 4.7 Calculate the production and efficiency of warping processes.	1.To about winding 2.Object of winding 3. Calculate the production and efficiency of warping processes
07	Class Test		Chapter 1 & Chapter 2	Clear concept of first two chapter

08	Understand sizing.	Projector https://textilechapter.blogspot.com/2016/11/sizing-technique-process-weaving.html	5.1 Define sizing. 5.2 State the objects of sizing. 5.3 Discuss the different types of size ingredients. 5.4 State the functions of size ingredients. 5.5 Mention the factors to be considered for selection of size ingredients. 5.6 Mention the various size recipe for different types and count of yarn.	1.To know about sizing 2.To know about the function of sizing 3.object of sizing
09	Review Class		Chapter:3-4 (Regarding students problem)	
10	Class test		Chapter 3 and chapter 4	
11	Understand the size preparation for warp.	https://textilechapter.blogspot.com/2016/11/sizing-technique-process-weaving.html	6.1 Mention the different types of size mixing equipments. 6.2 Describe the size mixing procedure. 6.3 Explain the pick-up percentage. 6.4 Mention the different types of faults of sizing & their remedies.	1.To know about different types of size mixing equipments. 2.To know about Explain the pick-up percentage.

			6.5 Calculate the sizing production and efficiency. 6.6 Discuss the effect of under and over sizing.	
11	Quiz Test		Theory Base/ Practical Base Should mentioned . Chapter:5	
12	Understand denting & drafting.	https://www.youtube.com/watch?v=bny0qJTUrHc	7.1 Define drafting and denting. 7.2 Classify drafting and denting. 7.3 Discuss the procedure of drafting & denting. 7.4 Calculate the drafting & denting.	1.To know what is drafting and denting and its details
13	Understand reed count & heald count.		8.1 Define reed count and heald count. 8.2 Classify reed count and heald count. 8.3 Calculation of reed counts & heald count. 8.4 Define tie-up & auto knotting. 8.5 Describe tie-up & auto knotting. 8.6 Distinguish between tie-up & auto knotting.	1.To know what is read count and heald count 2. Tie-uo and auto knotting
14	Midterm Examination		Preparation of midterm examination	
15	Understand weaving.		9.1 Define weaving 9.2 State the term loom. 9.3 Discuss the historical development of loom. 9.4 Discuss about handloom. 9.5 State the scope of handloom.	1.To know about hand loom loom and its function
16	Understand power loom.		9.1 Define power loom, Automatic loom, Semi-automatic loom. 9.2 Classify power loom. 9.3 Distinguish between semi-automatic & automatic loom. 9.4 List the main parts of power loom.	1.To know about power loom and its fountion

17	Understand the motions of loom		11.1 State the motions of loom. 11.2 Classify the motions of loom. 11.3 Discuss primary, secondary & Tertiary, motions of loom. 11.4 List the different tertiary motions of loom.	1. Two Know motion of loom , its type and function
18	Understand the basic idea of knitting.	Projector https://textilechapter.blogspot.com/search/label/Knitting	12.1 Define knitting. 12.2 Discuss the history of knitting. 12.3 Mention the types of knitting 12.4 Discuss characteristics of knit yarn. 12.5 Define warp and weft knitting. 12.6 Distinguish between knitting and weaving. 12.7 Distinguish between warp knitting & weft knitting	1. Basic concept of knitting
19	Class Test 3		Chapter 10 and chapter 11	
20	Review Class		Preparation of final examination	

Special Notice: Class Attendance less than 80% considered as failure in the subject similarly , absence in class quiz, class presentation will considered as failure for the subject