Daffodil Polytechnic Institute, Institute Code: 50238

Subject Teacher : Md. Jihad Hasan.
Subject Name : Fabric Structure & Design.
Subject Code : 21251
Technology : Textile Technology
Semester : 5th Textile & Apparel
Reference Book : Fabric Structure & Design (Publisher: Prime Publication)

Marks	Grade Point	Letter Grade	*Marks*	Grade Point	Letter Grade
80>	4.00	A+	55-59	2.75	B-
75-79	3.75	A	50-54	2.50	C+
70-74	3.50	A-	45-49	2.25	C
65-69	3.25	B+	40-44	2.00	D
60-64	3.00	B	0-39	0.00	F

Time Distribution (90min)	
Particular	Time
Greeting with students	5 Min
Previous class review	10 Min
Present class lecture	60 Min
Feedback	10 Min
Attendance	5 Min

THEORY LESSON PLAN

Chapter	Learning Area	Learning Outcome	Supporting Equipments
1.	**Introduction of Fabric Structure and Design** 1.1 Define fabric structure 1.2 Classify fabric structure 1.3 Define fabric design 1.4 Define texture 1.5 Describe grain line of fabric 1.6 Define woven structure 1.7 Classify woven structure.	1) To gain knowledge about Fabric Structure. 2) To know about Fabric Design, Texture & Woven Structure.	Text Book, marker& Link:
2	**Fundamentals of woven design** 2.1 Explain different parts of a complete design 2.2 Describe the methods of fabric representation 2.3 Mention the conditions of repeat unit	1) To gain knowledge about fabric representation. 2) To know the basics	Text book, marker & Link:

	2.4 Describe the identification process of warp and weft yarn 2.5 Define drafting 2.6 Classify drafting 2.7 Explain the methods of indicating drafts 2.8 Discuss various types of drafting systems 2.9 Discuss the basic weave of woven fabric.	about drafting, lifting & denting plan. 3) To gain knowledge about the basic weave of woven fabric.	
Quiz Test - 1 Date:		**Evaluation of Chapter-1 & 2**	**Questions & answers script**
3	**Plain weave** 3.1 Define plain weave 3.2 Mention the features of plain weave 3.3 Classify plain cloth according to different approach 3.4 Describe the ornamentation process of plain weave 3.5 Discuss the end uses of plain weave.	1) To gain knowledge about plain weave. 2) To know about the ornamentation process of plain weave & the uses of plain weave.	Text Book, Marker & Link:
4	**Derivatives of Plain weave** 4.1 Describe the derivatives of plain weave 4.2 Define rib weave 4.3 Classify rib weave 4.4 Explain different types of rib weave with graph paper 4.5 Define matt weave 4.6 Classify matt weave 4.7 Explain different types of matt weave with graph paper 4.8 Distinguish between rib and matt weave	1)To gain knowledge about derivatives of plain weave. 2) To gain knowledge about the graphical representation of rib weave, matt weave. 3) To gain knowledge about the types of rib weave & matt weave.	Text Book, Marker & Link:
Class Test - 1 Date:		**Evaluation of Chapter-3 & 4**	**Questions & answers script**
5	**Twill weave** 5.1 Define twill weave 5.2 Mention the features of twill weave 5.3 Classify twill weave according to different points of view 5.4 Define angle of twill 5.5 List the derivatives of twill weave.	1) To gain knowledge about twill weave with features. 2) To gain knowledge about the derivatives of twill weave.	Text Book, Marker & Link:

MID TERM EXAM - (Exam starts from March 01)		**Syllabus: Chapter 1-5**	
6	**Zigzag and Herringbone twill** 6.1 Define zigzag twill 6.2 Classify zigzag twill 6.3 Explain different types of zigzag twill with graph paper 6.4 Compare between horizontal and vertical zigzag twill 6.5 Define herringbone twill 6.6 Classify herringbone twill 6.7 Explain different types of herringbone twill with graph paper 6.8 Distinguish between horizontal and vertical herringbone twill.	1)To gain knowledge about zigzag twill & different types of zigzag twill with graph paper. 2)To know the herringbone twill & different types of herringbone twill with graph paper.	Text book,, Marker & Link:
7	**Diamond and Diaper design** 7.1 Define diamond design 7.2 Mention the features of diamond design 7.3 Illustrate the construction principle of diamond design 7.4 Construct diamond design with drafting and lifting plan 7.5 Define diaper design 7.6 State the features of diaper design 7.7 Illustrate the construction principle of diaper design 7.8 Construct diaper design with drafting and lifting plan 7.9 Differentiate between diamond and diaper design.	1)To gain knowledge about diamond design with the construction principle of diamond design. 2)To gain knowledge about diaper design & the construction principle of diaper design with drafting & lifting plan.	Text book, Marker & Link:
Quiz Test - 2 Date:		**Evaluation of Chapter-6 & 7**	**Questions & answers script**
8	**Broken twill and Rearranged twill** 8.1 Define broken twill 8.2 Mention the features of broken twill 8.3 Explain the construction principle of various types of broken twill 8.4 Construct broken twill with drafting and lifting plan 8.5 Define rearranged twill	1) To know about broken twill with drafting & lifting plan. 2) To know about rearranged twill with drafting & lifting plan.	Text book, Marker & Link:

	8.6 Mention the features of rearranged twill 8.7 Explain the construction principle of rearranged twill 8.8 Construct rearranged twill with drafting and lifting plan.		
9	**Stepped and elongated twill** 9.1 Define stepped twill 9.2 Mention the features of stepped twill 9.3 Explain the construction principle of various types of stepped twill 9.4 Construct stepped twill with drafting and lifting plan 9.5 Define elongated twill 9.6 Mention the features of elongated twill 9.7 Explain the construction principle of various types of elongated twill 9.8 Construct elongated twill with drafting and lifting plan.	1) To gain knowledge about stepped twill, construction principle with drafting & lifting plan. 2) To gain knowledge about elongated twill, construction principle with drafting & lifting plan.	Text book, Marker & Link:
Class Test - 2 Date:		**Evaluation of Chapter-8 & 9**	**Questions & answers script**
10	**Combined Twill** 10.1 Define combined twill 3 3 10.2 Mention the features of combined twill 10.3 Explain the construction principle of warp way combined twill 10.4 Construct warp way combined twill with drafting and lifting plan. 10.5 Explain the construction principle of weft way combined twill 10.6 Construct weft way combined twill with drafting and lifting plan.	1) To gain basic knowledge about combined twill. 2) To know the construction, features, drafting & lifting plan of combined twill.	Marker, Text Book & Link:
11	**Shaded twill** 11.1 Define shaded twill	1)To know the construction, features,	Text book, Marker &

	11.2 Mention the features of shaded twill 11.3 Explain the construction principle of single shaded twill 11.4 Construct single shaded twill with drafting and lifting plan 11.4 Explain the construction principle of double shaded twill 11.6 Construct double shaded twill with drafting and lifting plan.	drafting & lifting plan of shaded twill.	Link:
12	**Satin and Sateen weaves** 12.1 Define satin weave 12.2 Mention the features of satin weave 12.3 Mention the classification of satin weave 12.4 Define move number 12.5Describe the selection process of move number for satin weave 12.6 Define regular and irregular satin weave 12.7 Explain the construction process of satin weave with graph paper 12.8 Explain the construction process of sateen weave with graph paper 12.9 Discuss the end uses of satin weave.	1) To gain knowledge about satin weave. 2) To gain knowledge about sateen weave with the construction process of sateen weave with graph	Text book, Marker & Link:
13	**Derivatives of satin weave** 13.1 Describe the derivatives of satin weave 13.2 Discuss crepe weave 13.3 Explain different methods of crepe weave production 13.4 Explain the construction principle of odd number crock screw weave with graph paper 13.5 Explain the construction principle of single shaded satin weave with graph paper 13.6 Explain the construction principle of double shaded satin Weave with graph paper.	1)To gain knowledge about the derivatives of satin weave with graphical representation.	
14	**Basic weft knitted structure** 14.1 Define knitted structure 14.2 Mention the features of knitted structure	1)To gain knowledge about basic knitted structure.	

	14.3 Describe the classification of basic weft knitted structure 14.4 Draw the chain notation of basic weft knitted structure 14.5 Sketch the cam arrangement of basic weft knitted structure 5 12 14.6 Sketch the needle arrangement of basic weft knitted structure 14.7 Define GSM 14.8 Calculate GSM of basic knit fabric 14.9 Define stitch length 14.10 Explain the process of measuring stitch length**.**		
15	**Typical export oriented fabrics** 15.1 Explain typical export oriented fabrics 15.2Mentionthe specification of Poplin, Voile, Chambray, Oxford, Canvas, Chiffon, Seer Sucker and Muslin Fabrics 15.3 Mention the specification of Denim, Gabardine, Fill-A-Fill, Ottoman And Panama Fabrics. 15.4 Mention the specification of Single jersey, Rib, Interlock, Lacoste, Pique, Waffle, Fleece fabrics.	1)To gain knowledge about typical export oriented fabrics. 2)To gain knowledge about the derivatives of knit fabrics.	
Submission of Assignment or Presentation (All Chapters)		**Date:**	
Total Class & Quiz Tests: 4		**Total Class: 30**	