



Daffodil Polytechnic Institute, Institute Code: 50238

Subject Teacher : Md. Obydullah Al Masum
Subject Name : Textile Calculation-II
Subject Code : 1977
Technology : Textile Technology
Semester : 7th Textile
Reference Book : Textile Calculation-II (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.	Understand the calculation of winding 1.1 Calculate the speed of drum by gearing sketch of spool winding. 1.2 Calculate the traversing rate & production of spool winding. 1.3 Calculate the speed of pirn spindle by gearing sketch of pirn winding. 1.4 Calculate the production of pirn winding. 1.5 Solve the problems.	1) To develop the basic knowledge to calculate winding	Text Book, marker & Link:
2	Understand the calculation of warping. 2.1 Calculate the production of warping by gearing sketch of machine. 2.2 Calculate the number of ends for specific beam &	1) To develop the basic knowledge to calculate warping	Text book, marker & Link:

	fabric. 2.3 Calculate the total number of yarn package required for specified fabrics. 2.4 Solve the problems.		
Quiz Test - 1 Date:		Evaluation of Chapter- 1 & 2	Questions & answers script
3	Understand the calculation of sizing. 3.1 Calculate the production of sizing by gearing sketch of machine. 3.2 Calculate the size pick-up percentage 3.3 Calculate the number of ends for specified fabrics. 3.4 Calculate the different amount of size ingredients. 3.5 Solve the problems.	1) To develop the basic knowledge to calculate Sizing	Text Book, Marker & Link:
4	Understand the heald count & reed count 4.1 Define heald count & reed count. 4.2 List the different types of heald count & reed count. 4.3 Calculate the heald count & reed count. 4.4 Calculate the drop wire & heald wire for different types of fabric. 4.5 Solve the problems.	1) To develop the basic knowledge to calculate heald count 2) To develop the basic knowledge to calculate reed count	Text Book, Marker & Link:
Class Test - 1 Date:		Evaluation of Chapter- 3 & 4	Questions & answers script
5	Understand the loom and knitting calculation and production. 5.1 Select the heald and reed for different types of fabric production. 5.2 Calculate the loom constant & picks per inch. 5.3 Calculate the speeds of crack shaft & bottom shaft by gearing sketch. 5.4 Calculate loom and knitting efficiency & production. 5.5 Solve the problems.	1) To develop the basic knowledge to calculate loom production 2) To develop the basic knowledge to calculate knitting production	Text Book, Marker & Link:
MID TERM EXAM - (Exam starts from March 01)		Syllabus: Chapter 1-5	
6	Understand the fabric calculation.	1) To develop the basic	Text book,,

	6.1 Mention the warp & weft requirement for weaving. 6.2 List the different types of fabric specification (woven and knitted fabric). 6.3 Calculate the weight of warp yarn & weight of weft yarn for specified woven fabric. 6.4 Calculate the weight of cloth in ozs/sq yd and gms/sq-meter. 6.5 Solve the problems.	knowledge to calculate cloth calculation	Marker & Link:
7	Understand the dye requirement in dyeing section. 7.1 Mention the factors of selection of dye recipe. 7.2 Calculate the amount of different dyes & chemicals for different dye recipe. 7.3 Calculate the required dye liquor solution for different recipe. 7.4 Calculate the shade percentage for different dyeing. 7.5 Solve the problems.	1) To know the basic calculation and amount of different dyes and chemicals	Text book, Marker & Link:
Quiz Test - 2 Date:		Evaluation of Chapter- 6 & 7	Questions & answers script
8	Understand the cloth requirement of garments. 8.1 State the term fabric consumption. 8.2 Describe the method to find out the fabric consumption. 8.3 Find the requirement of fabric for type & sizes of garments. 8.4 Solve the problems.	1) To know about fabric consumption 2) To know the requirement of fabric for type and sizes of garments	Text book, Marker & Link:
9	Understand the sewing thread consumption. 9.1 Describe the methods to find out the thread consumption. 9.2 Mention the factors of thread consumption of the garments. 9.3 Calculate the thread consumption for specified garments.	1) To know about thread consumption 2) To calculate the thread consumption for specified garments	Text book, Marker & Link:
Class Test - 2 Date:		Evaluation of	Questions &

		Chapter- 8 & 9	answers script
10	Understand the calculation of costing. 10.1 Mention the factors of costing. 10.2 Calculate the cost of yarn production. 10.3 Calculate the cost of fabric production for fabric manufacturing. 10.4 Calculate the cost of dyed fabric production for wet processing. 10.5 Prepare a costing sheet of sewing thread for producing shirt & trouser. 10.6 Calculate the cost of garments production for clothing technology. 10.7 Calculate waste in over process maximum utilization for production. 10.8 Machinery selection i.e high speed machine, low energy consumption machine, minimum manpower, low add-on system. 10.9 Re Process control. 10.10 Recovery system. 10.11 R.F.T (Right First Time)	1) To Calculate the cost of yarn production. 2) To Calculate the cost of yarn production. 3) To Calculate the cost of yarn production. 4) To Calculate waste in over process maximum utilization for production 5) To know about Re process control, recovery system, RFT	Marker, Text Book & Link:
Submission of Assignment or Presentation (All Chapters)		Date:	
Total Class & Quiz Tests: 4		Total Class: 30	