



Daffodil Polytechnic Institute, Institute Code: 50238

Subject Teacher : Md. Obydullah Al Masum
Subject Name : Textile Printing
Subject Code : 21363
Technology : Textile Technology
Semester : 6th Textile (WP)
Reference Book : Textile Printing (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.	Design development for textile printing 1.1 Define design for textile printing 1.2 Mention the types of design 1.3 List out the sources of design 1.4 Mention the uses of Illustrator for printing design 1.5 Mention the uses of Adobe Photoshop for printing design 1.6 Describe the repeat of design and repeat alignment 1.7 State the limitations of repeat size in design.	1. To know about textile printing 2. To know the flow process of textile printing	Text Book, marker&

2	Screen preparation for fabric printing 2.1 Define screen for textile printing 2.2 Classify screen 2.3 Mention the chemicals required for screen preparation 2.4 Mention the sequence of screen preparation 2.5 List out the light sources for screen preparation 2.6 Describe the squeeze system	1. To know the about screen 2. To know the chemicals required for screen preparation 3. To know the light sources for screen preparation 4. To know the squeeze system	Text book, marker &
Quiz Test - 1 Date:		Evaluation of Chapter- 1 & 2	Questions & answers script
3	Printing paste preparation 3.1 Define printing paste 3.2 Define water-based and oil-based printing paste 3.3 Define printing thickener 3.4 Classify printing thickener 3.5 State the suitability of thickener for different dyes and fibers 3.6 Discuss the functions of ingredients used in reactive printing on cotton 3.7 Discuss the functions of ingredients used in disperse printing on polyester 3.8 Illustrate the functions of ingredients used in pigment printing on cotton and polyester	1. To know about water-based and oil-based printing paste 2. To know about thickener 3. To know the the functions of ingredients used in reactive printing on cotton	Text Book, Marker
4	Textile printing procedure 4.1 State the common process flow chart of	1. To know about common	Text Book, Marker

	textile printing procedure 4.2 Discuss the printing process of cellulosic fabric by reactive dye 4.3 Describe the printing process of polyester fabric by disperse dye 4.4 Discuss the printing process of cellulosic fabric by pigment 4.5 Describe the printing process of polyester fabric by pigment 4.6 Discuss the printing process of wool and silk fabric by pigment 4.7 State the advantages and disadvantages of pigment printing 4.8 State the advantages and disadvantages of disperse printing 4.9 State the advantages and disadvantages of reactive printing	process flow chart of textile printing procedure 2. To know the printing process of with reactive dye, disperse dye, pigment dye	
Class Test - 1 Date:		Evaluation of Chapter- 3 & 4	Questions & answers script
5	Machinery of textile printing 5.1 Mention the general machineries used for textile printing 5.2 Describe the uses of flatbed screen printing machine for textiles 5.3 Mention the uses of rotary screen printing machine for textiles 5.4 Differentiate between flatbed and rotary screen printing machine 5.5 Point out the main parts of flatbed and rotary screen printing machine	1. To know the general machineries used for textile printing 2. To know the uses of flatbed screen printing machine for textiles 3. To know Differentiate between flatbed and rotary screen printing machine	Text Book, Marker & Link:
MID TERM EXAM - (Exam starts)		Syllabus: Chapter 1-5	
6	Drying systems 6.1 Describe the drying methods for printing 6.2 State the various drying system after printing	1. To know the drying methods for printing 2. To know to	Text book,, Marker

	6.3 Mention the factors considered for selection of dryer 6.4 Mention the different types of dryer machine used in textile printing industry	the different types of dryer machine used in textile printing industry	
7	Steaming and Curing 7.1 Define steaming 7.2 Define Curing 7.3 Differentiate between steaming and curing 7.4 Discuss the importance of steaming and curing in printing 7.5 State the principle of steaming and curing machine during printing	1. To know about steaming, Curing 2. To know Differentiate between steaming and curing 3. To know the the principle of steaming and curing machine during printing	Text book, Marker
Quiz Test - 2 Date:		Evaluation of Chapter- 6 & 7	Questions & answers script
8	Washing for Textile Printing 8.1 Define washing for textile printing 8.2 State the purpose of washing after textile printing 8.3 Describe the various washing processes after textile printing	1. To know the purpose of washing after textile printing 2. To the various washing processes after textile printing	Text book, Marker
9	Testing in printed goods 9.1 Mention the necessity of testing in printed goods 9.2 State the required testing in printed goods 9.3 Describe color fastness to wash, rubbing, light, perspiration and	1. To know the necessity of testing in printed goods 2. To know the color fastness to wash, rubbing,	Text book, Marker

	hot pressing 9.4 Describe color bleeding performance 9.5 List out the chemical test for toxic materials and carcinogenic contents	light, perspiration and hot pressing.	
Class Test - 2 Date:		Evaluation of Chapter- 8 & 9	Questions & answers script
10	Faults and Remedies for Textile Printing 10.1 Discuss the faults and remedies of screen preparation 10.2 Describe the faults and solutions during textile printing process 10.3 State the limitations of textile printing process	1. To know about the faults and remedies of screen preparation 2. To know the limitations of textile printing process	Text book, Marker
Submission of Assignment or Presentation (All Chapters)		Date:	
Total Class & Quiz Tests: 4		Total Class:	

PRACTICAL LESSON PLAN

Chapter	Learning Area	Learning Outcome
1	Prepare Screen for fabric printing	1.1 Choose the mesh fabric 1.2 Attach the mesh fabric with appropriate frame 1.3 Collect necessary chemicals 1.4 Apply chemicals on the mesh fabric 1.5 Maintain proper light sources to obtain an appropriate design 1.5 Maintain the record of performed experiment
2	Prepare printing paste for textile fabric printing	2.1 Select ingredients for making textile printing paste 2.2 Perform necessary calculations to obtain a required shade

		<p>2.3 Apply chemicals and auxiliaries for making textile printing paste</p> <p>2.4 Prepare the textile printing paste</p> <p>2.5 Maintain the record of the experiment.</p>
3	Perform operation of flatbed screen printing machine	<p>3.1 Sketch and identify different components of flatbed printing machine</p> <p>3.2 Demonstrate the operation of flatbed printing machine</p> <p>3.3 Observe the effect of required print on printed fabrics</p> <p>3.4 Maintain the record of performed experiment</p>
4	Perform operation of rotary screen printing machine	<p>5.1 Sketch and identify different components of rotary printing machine</p> <p>5.2 Demonstrate the operation of rotary printing machine</p> <p>5.3 Observe the effect of required print on printed fabrics</p> <p>5.4 Maintain the record of performed experiment</p>
5	Perform printing of reactive dyes on cellulosic materials	<p>5.1 Collect reactive dye, necessary chemicals and fabrics</p> <p>5.2 Perform necessary calculations to obtain a required shade</p> <p>5.3 Apply chemicals and auxiliaries for printing of printing of cellulosic fabrics</p> <p>5.4 Demonstrate the printing process with reactive dye on cellulosic fabric</p> <p>5.5 Maintain the record of performed experiment</p>
6	Demonstrate the faults and remedies of textile printing	<p>6.1 Collect faulty samples from printing industries</p> <p>6.2 Identify the name of faults and find their possible remedies</p> <p>6.3 Maintain the record of performed experiment</p>