

**BANGLADESH TECHNICAL EDUCATION BOARD**

**4-YEAR DIPLOMA-IN-TEXTILE ENGINEERING PROGRAM**

**GARMENTS DESIGN AND PATTERN MAKING TECHNOLOGY**

**SYLLABUS**

**SEVENTH SEMESTER**

## GARMENTS DESIGN AND PATTERN MAKING TECHNOLOGY

### SIXTH SEMESTER

Sl No	Subject code	Name of the subject	T	P	C	MARKS				
						Theory		practical		Total
						Cont. Assess	Final exam.	Cont. Assess.	Final exam.	
1.	5061	Garments manufacturing –III	3	3	4	30	120	25	25	200
2.	5062	Cad & cam-I	2	6	4	20	80	50	50	200
3.	5063	Apparel testing	3	3	4	30	120	25	25	200
4.	5064	Garments production planning and control	3	0	3	30	120	-	-	150
5.	5065	Maintenance of garments manufacturing machine	1	6	3	10	40	50	50	150
6.	5841	Business organization & communication	2	0	2	20	80	-	-	100
7.	5840	Environmental management	2	0	2	20	80	-	-	100
<b>Total</b>			<b>16</b>	<b>18</b>	<b>22</b>	<b>160</b>	<b>640</b>	<b>150</b>	<b>150</b>	<b>1100</b>

## SEVENTH SEMESTER

Sl. No	Subject code	Name of the subject	T P C			MARKS				
						Theory		Practical		Total
						Cont. assess.	Final exam.	Cont. assess.	Final exam.	
1	5071	Apparel Merchandising	2	0	2	20	80	-	-	100
2	5072	Garments Dyeing, Washing and Finishing	2	3	3	20	80	25	25	150
3	5073	Specialized Garments Production	2	3	3	20	80	25	25	150
4	5074	Garments Finishing and Quality Control	2	3	3	20	80	25	25	150
5	5075	CAD and CAM-II	1	6	3	10	40	50	50	150
6	1974	Fashion & Design	2	3	3	20	80	25	25	150
7	5871	Entrepreneurship	2	0	2	20	80	-	-	100
8	2012	Industrial Management	3	0	3	30	120	-	-	150
		<b>TOTAL</b>	<b>16</b>	<b>18</b>	<b>22</b>	<b>160</b>	<b>640</b>	<b>150</b>	<b>150</b>	<b>1100</b>

**5071**

**APPAREL MERCHANDISING**

T P C  
2 0 2

### AIMS

- To be able to understand the garments export and import management.
- To be able to develop knowledge of export costing and pricing.
- To be able acquire knowledge of garments export and import procedure.
- To be able to understand the export documentation and export marketing communication.

### SHORT DESCRIPTION

International trade theory; Export management; Category and quota of different woven garments; Export business environment; Export policy decision of a firm; Export costing and export pricing; Export finance; Export procedure; Export documentation; Export marketing communication; Advantages of garments export; Import procedure.

### DETAIL DESCRIPTION

- 1 Understand basic Apparel merchandising.**
  - 1.1 Introduction of Apparel merchandising.
  - 1.2 Describe Garments production & Export.
  - 1.3 Discuss role of garments merchandiser.
  - 1.4 Mention duties & responsibilities of a garments merchandiser.
  - 1.5 Describe knowledge & Skillness requirement for garments merchandiser.
  - 1.6 State Negotiation skill.
  - 1.7 Describe the process of negotiation.

## **2 Understand terminology related Apparel Merchandising.**

- 2.1 Define L.C.
- 2.2 Define Back to back L.c.
- 2.3 Define Invoice.
- 2.4 Understand about Fob, C&F, and CIF.
- 2.5 Idea about GSP,
- 2.6 Idea about Quota, Non-Quota & Category.
- 2.7 Mention the Categories of Garments production in Bangladesh.
- 2.8 Mention the buyers name with country origin.

## **3 Understand the Merchandising on woven garments.**

- 3.1 Define yarn consumption of woven fabric.
- 3.2 Calculation of yarn per square yds of fabric.
- 3.3 Fabric consumption per dozen of shirt.
- 3.4 Fabric consumption per dozen of pant.

## **4 Merchandising on Knit garments.**

- 4.1 Define yarn consumption of Knit fabrics.
- 4.2 Define GSM.
- 4.3 State the importance of GSM.
- 4.4 Describe the factors of GSM.
- 4.5 Calculation of GSM of Knit fabrics.
- 4.6 Discuss fabric consumption per dozen of T-Shirt.
- 4.7 Fabric consumption per dozen of polo Shirt.
- 4.8 Fabric consumption per dozen of Trouser.

## **5 Understand the Accessories & Trimmings of garments.**

- 5.1 Define Accessories & Trimmings.
- 5.2 Mention the Accessories & Trimmings Use in garments industries.
- 5.3 Mention the list of Accessories & Trimmings for T-shirt.
- 5.4 Mention the list of Accessories & Trimmings for Trouser.
- 5.5 Mention the list of Accessories & Trimmings for polo-shirt.
- 5.6 Mention the list of Accessories & Trimmings for Casual Shirt.
- 5.7 Mention the list of Accessories & Trimmings for pant.

## **6 Understand the thread consumption.**

- 6.1 Define thread consumption.
- 6.2 State importance of thread consumption.
- 6.3 Describe thread consumption for lock Stitch.
- 6.4 Describe thread consumption Single Chain Stitch.
- 6.5 Discuss thread consumption muti thread Chain Stitch.

## **7 Understand the Import & export Procedure.**

- 7.1 Define Import.
- 7.2 Define export.
- 7.3 State procedure of import trade.
- 7.4 Describe the steps involve in opening letter of credit(L.C)
- 7.5 Describe the import procedure of garment raw materials, industrial goods and commercial goods.
- 7.6 Discuss procedure of garments export order.
- 7.7 Describe execution of garments export order.

## **8 Understand the garments costing.**

- 8.1 Define garments costing.
- 8.2 Mention the elements of costing.
- 8.3 Describe direct costing & indirect costing.
- 8.4 Describe the process of preparation of costing sheet of producing basic shirt, trouser and jackets.
- 8.5 Describe the importance of controlling garments costing.
- 8.6 Mention pricing objectives.
- 8.7 Mention factors influencing price determination.
- 8.8 Describe break even point.
- 8.9 Calculate the C&F & Fob value of garments.

**9 Understand the export documentation.**

- 9.1 Describe documents required in export transaction.
- 9.2 Describe different types of export documents.
- 9.3 Describe the method of obtaining export documents.
- 9.4 Describe procedure in export trade.
- 9.5 Describe procedure for realization of export incentives

**10 Understand the export marketing communication.**

- 10.1 Describe export marketing communication.
- 10.2 Describe export advertising & sales promotion.
- 10.3 Describe tools of public relation, trade fairs and exhibition.
- 10.4 Describe the barriers in export & marketing communication.

**AIMS**

To be able to develop knowledge, skill and attitude in the area of garments dyeing, washing and finishing with special emphasis on:

- garments dyeing, steaming & drying
- garments washing and finishing
- enzyme, De-Lusturing and brightening finish of garments
- drying machine and ironing of garments.

**SHORT DESCRIPTION**

Garments washing; Stone wash; Chemical wash; Garments finishing; Enzyme finish; De-Lusturing finishing of garments; Brightening finish of garments; Garments dyeing; Steam of garments; Drying machine; Ironing of garments.

**DETAIL DESCRIPTION****Theory:****1 Understand the garments dyeing.**

- 1.1 Define garments dyeing.
- 1.2 Mention the importance of garments dyeing.
- 1.3 Describe the purposes of garments dyeing
- 1.4 Mention the classification of garments dyes.
- 1.5 Describe the dyeing for cotton garments.
- 1.6 Describe the application of dyes on blended garments.
- 1.7 Understand the faults in garments dyeing with their remedies.
- 1.8 List the names of garments dyeing machine.
- 1.9 Describe the garments dyeing machine.

**2 Understand the garments washing.**

- 2.1 Define the term garments washing.
- 2.2 Mention the purpose of garments washing.
- 2.3 State the classification of garments washing.
- 2.4 Describe different styles of garments washing.
- 2.5 Illustrate different methods of garments washing.
- 2.6 List different chemicals of garments washing.
- 2.7 List different auxiliaries of garments washing.
- 2.8 Mention the recipe with material and liquor ratio of garments washing.
- 2.9 Understand different faults of garments washing.
- 2.10 Explain the remedies of garments washing faults.

**3 Understand the stone wash of garments.**

- 3.1 Define the term stone wash.
- 3.2 List various stone washes.
- 3.3 Understand washing stones.
- 3.4 Mention the recipe of stone wash with m : L ratio.
- 3.5 List different chemicals and auxiliaries used in stone wash.
- 3.6 Describe the process of stone wash.

**4 Understand the chemical wash of garments.**

- 4.1 Define chemical wash.
- 4.2 Mention the purpose of chemical wash.
- 4.3 List different chemicals and auxiliaries used in chemical wash.
- 4.4 Describe the applications of oxidizing and reducing agents used in chemical wash of garments.
- 4.5 Describe the garments wash with bleaching agents.
- 4.6 Describe acid wash
- 4.7 Describe the neutralization process of garments.
- 4.8 Describe the process of sand blasting or monkey wash.
- 4.9 Describe the dry washing.

**5 Understand the garments finishing.**

- 5.1 Define garments finishing.
- 5.2 Mention the purpose of garments finishing.
- 5.3 State the factors of garments finishing.
- 5.4 Classify garments finishing.
- 5.5 List the names of garments finishing machine.
- 5.6 Describe the finishing process of garments in winch machine.
- 5.7 Illustrate pressing.
- 5.8 Explain folding.
- 5.9 Describe packing.

**6 Understand the enzyme finish.**

- 6.1 Define the term enzyme finish.
- 6.2 List the names of different enzyme.
- 6.3 Mention the recipe for enzyme finish.
- 6.4 Describe the process of enzyme finishing.

**7 Understand the De-Lusturing finishing of garments.**

- 7.1 Define De-Lusturing.
- 7.2 Describe the necessities of De-Lusturing process of garments.
- 7.3 List the De-Lusturing chemicals and auxiliaries.
- 7.4 Describe the process of De-Lusturing of garments.

**8 Understand the brightening finishing of garments.**

- 8.1 Define the term brightening finishing.
- 8.2 Describe the purposes of brightening finishing.
- 8.3 List different agents of brightening finishing.
- 8.4 Mention the classification of brightening finishing agent.
- 8.5 Describe the process of brightening finishing for cotton and blended garments.
- 8.6 Describe the process of brightening finishing for different garments.

**9 Understand the steam of garments.**

- 9.1 Define steam.
- 9.2 Describe the uses of steam on dyed garments.
- 9.3 Mention the importance of steam on garments.
- 9.4 List different steam grades.
- 9.5 Describe different steaming processes of garments.

**10 Understand the drying machine.**

- 10.1 Classify the garments drying machine.
- 10.2 State the purposes of drying machine.
- 10.3 Describe the process of garments drying machine.
- 10.4 Mention the uses of garments drying machine.

## **11 Understand the ironing of garments.**

- 11.1 Define the term ironing.
- 11.2 State the purposes of ironing.
- 11.3 Describe the process of steam ironing.
- 11.4 Describe the process of electric ironing.
- 11.5 Distinguish between steam ironing and electric ironing.
- 11.6 Mention the faults of ironing.
- 11.7 Describe the remedies of ironing faults.

### **Practical:**

- 1 Draw the diagram of garment washing machine and label its important parts.
- 2 Adopt normal wash on cotton garments in the garment washing machine.
- 3 Adopt caustic wash on cotton garments in the garments washing machine.
- 4 Adopt bleach wash on cotton garment in the garments washing machine.
- 5 Adopt stone wash on cotton garments in the garments washing machine.
- 6 Adopt acid wash on cotton garments in the garments washing machine.
- 7 Adopt enzyme wash on cotton garments in the garments washing machine.
- 8 Adopt pigment wash on cotton printed garments in the garments washing machine.
- 9 Adopt cotton garments dyeing with cold brand reactive dyes in the garments dyeing machine.
- 10 Adopt cotton garments dyeing with hot brand reactive dyes.
- 11 Adopt cotton garments dyeing with sulphur black dyes in the garments dyeing machine.
- 12 Adopt vat dyeing on cotton garments.



**AIMS**

To be able to develop knowledge, skill and attitude in the area of special garments production with special emphasis on:

- protective clothing and production of specialized garments.
- microbial production and medical Textile.
- water repellent clothing and proofing of garments.

**SHORT DESCRIPTION**

Protective clothing; Production of specialized garments; Microbial protections; Medical Textiles; Water repellent clothing; Proofing of garments; Water proofing; Fire proofing; Mildew Proofing; Moth Proofing.

**DETAIL DESCRIPTION****Theory:****1 Understand the protective clothings.**

- 1.1 Describe protective clothing.
- 1.2 Define flame retardancy property.
- 1.3 Mention the classification of Textile fiber according to flame retardancy property.
- 1.4 Describe burning cycle.
- 1.5 Describe nomex, aramid, carbon and fibers.
- 1.6 Describe flame retardancy of cotton, viscose and polyester.
- 1.7 Describe fire fighter's suite.

**2 Understand the production of specialized garments.**

- 2.1 Describe the importance of specialized garments.
- 2.2 Describe coal miners suite.
- 2.3 Describe racing drivers suite.
- 2.4 Describe NASA recommended suite.

**3 Understand the anti microbial protection.**

- 3.1 Describe importance for protection.
- 3.2 Describe the mechanism of anti-microbial protection.
- 3.3 Describe the application of anti-microbial protection.

**4 Understand the medical Textile.**

- 4.1 Define medical Textile.
- 4.2 Describe the importance of medical Textile.
- 4.3 Identify the necessary for sterilization.
- 4.4 Mention the classification of medical Textile.
- 4.5 Describe the production procedure of different medical Textile.

**5 Understand the water repellent clothing.**

- 5.1 Describe different types of water repellent treatment on different fabrics.
- 5.2 Describe the technique of production of water repellent garments.
- 5.3 Discuss the comfortability parameters of water repellent garments.

**6 Understand the water proofing.**

- 6.1 Define water proofing.
- 6.2 Mention the purpose of water proofing.
- 6.3 Mention the types of water proofing.
- 6.4 Mention the typical recipe for water proofing.
- 6.5 Describe the process of water proofing.
- 6.6 Mention the uses of water proofing.

**7 Understand the fire proofing.**

- 7.1 Define fire proofing.
- 7.2 Describe the importance of fire proofing.
- 7.3 Mention the typical recipe for fire proofing.
- 7.4 Describe the process of fire proofing.
- 7.5 Mention the materials and chemicals used in fire proofing.
- 7.6 Uses of fire proofing.
- 7.7 Mention the properties of fire proofing agents.

**8 Understand the Mildew Proofing.**

- 8.1 Define Mildew Proofing.
- 8.2 Describe the purpose of Mildew Proofing.
- 8.3 Describe the process of Mildew Proofing.
- 8.4 Mention the uses of Mildew Proofing.

**9 Understand the Moth Proofing.**

- 9.1 Define Moth Proofing.
- 9.2 Describe the purpose of Moth Proofing.
- 9.3 Describe the Process of Moth Proofing.
- 9.4 Mention the uses of Moth Proofing.

**PRACTICAL:**

- 1 Determine flame retardancy property of cotton fabric.
- 2 Determine water repellency property of cotton fabric.
- 3 Determine the specification of different medical Textile product.
- 4 Apply the water repellent agent on cotton or synthetic fabric to make water repellent products.
- 5 Apply the fire Proofing agent on cotton or synthetic fabric to make fire Proofing repellent products.
- 6 Apply the Mildew and Moth Proofing agent on cotton or synthetic fabric to make Moth Proofing products.

**AIMS**

To be able to develop knowledge, skill and attitude in the area of garments finishing and quality control with special emphasis on:

- garments finishing and finishing equipment & method.
- spot removing of garments and quality control.
- inspection of garments industry.

**SHORT DESCRIPTION**

Garments finishing; Pressing; Faults of finished garments; Folding; Garments finishing equipment and methods; Spot removing of garments; Quality control; Packing; Handling of finished garments; Garments accessories inspection; Quality control in garments section; Final inspection.

**DETAIL DESCRIPTION****Theory:****1 Understand the garments finishing.**

- 1.1 Define finishing.
- 1.2 Describe different garments finishing (such as stand up, semi stand up, flat pack & hanger pack).
- 1.3 List the uses of care label code.
- 1.4 Describe different care label codes.

**2 Understand the pressing.**

- 2.1 Define pressing.
- 2.2 Mention the purposes of pressing.
- 2.3 Describe the factors of pressing.
- 2.4 List different equipment of pressing.
- 2.5 Describe the methods of different pressing.

**3 Understand the faults of finished garments.**

- 3.1 Mention the faults of garments.
- 3.2 Mention the classification of faults.
- 3.3 Describe the garments grading according to faults.
- 3.4 Describe the remedies of garments faults.

**4 Understand the folding.**

- 4.1 Define folding.
- 4.2 Mention the necessity of folding.
- 4.3 Describe different types of folding.
- 4.4 Mention the faults of folding.
- 4.5 List the precautions during folding.
- 4.6 Mention the factors of quality folding.

**5 Understand the garments finishing equipment and methods.**

- 5.1 List different finishing equipment of garments.
- 5.2 Describe the features of electrical & steam iron.
- 5.3 Describe the uses of electrical & steam iron.

- 5.4 Describe the working procedure of steam iron.
- 5.5 Describe working procedure dolly horse machine.
- 5.6 Describe the importance of steam air finish.
- 5.7 Describe steam tunnel.

**6 Understand the spot removing of garments.**

- 6.1 Describe the importance of spot removing of garments.
- 6.2 Describe the removing procedure of spot of Grease, Oil and wax, Marking Ink, Acid stain, Alkaline stain, Ammonia stains, Tee, Coffee, Iron, Copying ink, Writing ink, Dyes blood, Sugar & glue, Mildew & Iodine.
- 6.3 Describe the spot removing technique of cotton fabrics.
- 6.4 Describe the spot removing technique of wool fabrics.
- 6.5 Describe the spot removing technique of linen fabrics.

**7 Understanding the quality control.**

- 7.1 Define quality and standardization.
- 7.2 Describe the methods of quality control.
- 7.3 Describe the aim of quality control in garments.
- 7.4 Define inspection.
- 7.5 Describe inspection loop.
- 7.6 Mention the objectives of inspection.
- 7.7 Mention steps of inspection.
- 7.8 Describe raw material inspection.
- 7.9 Describe fabric inspection machine.
- 7.10 Describe four & ten points system of fabric inspection.

**8 Understand the packing.**

- 8.1 Define packing.
- 8.2 Mention the necessity of packing.
- 8.3 Describe the style of packing.
- 8.4 Describe the procedure of packing.
- 8.5 Mention the packing materials and auxiliaries.
- 8.6 Describe the faults of packing.
- 8.7 Mention the precaution of packing.

**9 Understand the handling of finished garments.**

- 9.1 Define garments handling.
- 9.2 Mention the importance of safe handling.
- 9.3 Mention different materials of handling.
- 9.4 Describe the process of handling.

**10 Understand the garments accessories inspection.**

- 10.1 Describe necessity of garments accessories inspection.
- 10.2 Describe sewing thread inspection.
- 10.3 Describe sewability tests.
- 10.4 Describe zipper inspection systems.
- 10.5 Differentiate among button, velcotape and interlining inspection.

**11 Understand the quality control in garments section.**

- 11.1 Describe quality measure in marker making.
- 11.2 Describe quality measure in fabric spreading.
- 11.3 Describe quality measure in fabric cutting section.
- 11.4 Describe quality measure in sewing section.
- 11.5 Describe ways of removal of sewing defect, seaming defect & assembly defect.
- 11.6 Describe the quality control of pressing & finishing.

## **12 Understand the final inspection.**

- 12.1 Describe final inspection.
- 12.2 Describe in process inspection in a garments industry.
- 12.3 Mention inspection points of shirt and trouser.
- 12.4 Describe hundred percent inspection.
- 12.5 Describe spot checking.
- 12.6 Describe arbitrary and acceptance sampling.
- 12.7 Describe double sampling plan.
- 12.8 Describe product quality audit.
- 12.9 Describe comparability checks.
- 12.10 Describe different standard commercial fabrics.

### **Practical:**

- 1 Practice on different types of garment pressing.
- 2 Practice on garment pressing at different temperature and pressure in the pressing machine.
- 3 Practice on different types of removing spot using different chemicals & reagents.
- 4 Practice on different types of garment packing.
- 5 Practice on finding different types of garments sewing defect and asses the defect by inspection.
- 6 Practice on different types of sampling.
- 7 Test sewability of fabric.
- 8 Practice on sewing thread quality test.
- 9 Practice on 4-poit fabric inspection system.

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**CAD and CAM-II**

T P C

1 6 3

**AIMS:**

1. To develop the basic knowledge regarding CAD & CAM
2. To develop knowledge & skill about garments CAD software
3. To acquire knowledge to make pattern, grading maker etc.

**SHORT DESCRIPTION:**

Basic concept of CAD & CAM, pattern processing, digitizing, PDS, marker, creation, editors, plotting, cutting, Accumark, explorer, utilities.

**1.0 Understand the Pattern Processing, Digitizing, PDS**

- 1.1 Describe the Edit Digitize by different garments CAD Software.
- 1.2 Define grade rule table.
- 1.3 Describe of Operate the Pattern Design different garments CAD Software.
- 1.4 Describe the Import User Settings, Export User Settings different garments CAD Software.
- 1.5 Function digitize handset button (cursor) by different garments CAD Software.

**2.0 Understand the Marker Creation, Editors**

- 2.1 Define Annotation, Lay Limit Editor, Notch Editor, Import Settings, Export Settings
- 2.2 Explain the file name of Annotation, Lay Limit Editor, Notch Editor, Export Settings
- 2.3 Describe of AutoMarker & auto mark edit
- 2.4 Describe of Easy Marking
- 2.5 Describe Marker Making by different garments CAD Software.
- 2.6 Describe Model Editor by different garments CAD Software.
- 2.7 Describe Block Buffer by different garments CAD Software.
- 2.8 Describe Easy Order, Order Editor ,Order Process
- 2.9 Define of Easy Order, Order Editor, and Model Editor by different garments CAD Software.

**3.0 Understand the Plotting and Cutting**

- 3.1 Define cut Gen parameter
- 3.2 Describe the Cut Gen Parameter
- 3.3 Define cut plot by different garments CAD Software
- 3.4 Describe the Cut Plot by different garments CAD Software.
- 3.5 Define marker plot parameter & piece plot parameter
- 3.6 Describe the Marker Plot Parameter, Piece Plot Parameter.

**4.0 Understand the AccuMark Explorer, Utilities**

- 4.1 Define the AccuMark Explorer.
- 4.2 Explain Activity Log, AccuMark Utilities, User Environment.
- 4.3 Describe the Data Conversion Utility & Lconvert.
- 4.4 Define Find.
- 4.5 Define Batch Processing.
- 4.6 Describe the Easy Plan.
- 4.7 Define the Hardware Configuration

**Practical:**

1. Make the Men's Basic Block of Pant by CAD Software.
2. Make the Men's Pant Grading & marker making with fabric Consumption by CAD Software.
3. Make the Men's Basic Block of Shirt by CAD Software.
4. Make the Men's Shirt Grading & marker making with fabric Consumption by CAD Software.
5. Make the Men's Basic Block of Jacket by CAD Software.
6. Make the Men's Jacket Grading & marker making with fabric Consumption by CAD Software.
7. Make the Ladies Basic Block of Pant by CAD Software.
8. Make the Ladies Pant Grading & marker making with fabric Consumption by CAD Software.
9. Make the Ladies Basic Block of Shirt by CAD Software.
10. Make the Ladies Shirt Grading & marker making with fabric Consumption by CAD Software.
11. Make the Ladies Basic Block of Jacket by CAD Software.
12. Make the Ladies Jacket Grading & marker making with fabric Consumption by CAD Software.
13. Make the Auto Marker by CAD Software.
14. Make the Pattern Conversion TMP Format To DXF Format by CAD Software.
15. Make the Consumption Report by CAD Software.

**AIMS**

1. To develop basic knowledge regarding fashion.
2. To develop knowledge of design.
3. To familiarize with fashion accessories.
4. To acquire knowledge in fashion drawing.
5. To develop skill, knowledge and market promotion of apparels.

**SHORT DESCRIPTION:**

Basic concept of fashion style and accessories; Product and design development; Fashion merchandising and market promotion; Fashion drawing from life; Fabric representation ; Fashion illustration.

**Theory :****1.0 Understand the style and fashion.**

- 1.1 History of function.
- 1.2 State the importance of style and fashion in human life.
- 1.3 Mention the classification of fashion.
- 1.4 State the importance of hair style to fashion.
- 1.5 State the importance of make-up to fashion.
- 1.6 State the importance of costume to fashion.
- 1.7 State the importance of body fitness to fashion.
- 1.8 State the importance of contact lance to fashion.
- 1.9 State the importance of jewelry to fashion.
- 1.10 State the importance of footwear to fashion.
- 1.11 Define the term style and fashion.
- 1.12 National & religion festival to fashion.

**2.0 Understand the international fashion centers.**

- 2.1 Name the well known international fashion creators.
- 2.2 Explain the reasons for French fashion leadership.
- 2.3 Discuss the growth and importance of the pret-a-porter.
- 2.4 List the reasons for the importance of New York as a fashion centers.
- 2.5 Discuss the role of international and domestic fashion centers.



### **3.0 Understand the product and design development.**

- 3.1 Describe line development by item or by group.
- 3.2 Explain the important elements and principles of design and their application to development.
- 3.3 Describe the process of creation a sample garment.

### **4.0 Understand the fashion accessory and fur manufacturing.**

- 4.1 Discuss the unique design considerations of various accessories.
- 4.2 List the fashion accessories.
- 4.3 Describe production methods for the major accessories.
- 4.4 Explain accessory design and production centers.
- 4.5 Discuss the marketing aspects for accessories.
- 4.6 Explain fur garment production.
- 4.7 Explain the threads, elastic, interfacing, narrow fabrics, zippes, button, belt are produced and used

### **5.0 Understand the wholesale markets, sales promotion and distribution.**

- 5.1 List the major international markets of apparel.
- 5.2 Discuss collection openings, line releases and market weeks.
- 5.3 Describe distribution polices.
- 5.4 Discuss various aids to selling.
- 5.5 Mention the forms of sales promotion.
- 5.6 Explain the use of EDI in distribution.

### **6.0 Understand the retail stores.**

- 6.1 Explain Today's retail situation and trends.
- 6.2 Discuss the various types of retail store.
- 6.3 Explain the organizational differences between single-unit and multiple-unit stores.
- 6.4 Mention the major international stores and famous shopping areas.
- 6.5 Distinguish between the organizational structure of small store with that of a large store.
- 6.6 Explain the growing importance of non-store retailing.
- 6.7 Explain store's fashion image is conveyed to consumer groups and manifested in store policies.

## **7.0 Understand the drawing from life.**

- 7.1 Mension proportion-natural, elongated figures (men's and women's).
- 7.2 Mension women's, men's and children's poses.
- 7.3 Mension children's, women's and men's heads.
- 7.4 Mension proportion-heads, hands and feet.
- 7.5 Mension women's and men's hands.
- 7.6 Mension children's hands and feet
- 7.7 Mension women's and men's feet.
- 7.8 Mension womes`s men's, children's and babies boots and shoes.

## **8.0 Understand the fabric representation.**

- 8.1 Describe depth and shine.
- 8.2 Describe faux fur and wool and lace.
- 8.3 Describe wool and faux fur.
- 8.4 Describe folds and fringing.
- 8.5 Describe highlights and pleats.
- 8.6 Describe lace and embroidery.

## **9.0 Understand the sketch book.**

- 9.1 Describe Ideas and concept of sketch look.
- 9.2 State Shop or reports.
- 9.3 Describe design development.

## **10.0 Understand the fashion illustration.**

- 10.1 State composition of fashion illustration.
- 10.2 Describe stylization.
- 10.3 Describe drawing for promotion.
- 10.3 Describe drawing children.
- 10.5 Describe children as cartoons.
- 10.6 Describe children's wear.

## **11.0 Understand the drawing for manufacture.**

- 11.1 List the basic equipment of drawing.
- 11.2 Describe the drawing from the dress stand.
- 11.3 Describe developing the template.
- 11.4 Describe developing the stencil.
- 11.5 Describe design with a template of stencil.
- 11.6 Explain the garment construction.

## **12.0 Understand the specialist areas.**

- 12.1 Describe active sportswear.
- 12.2 Describe drawing accessories.

### **Practical:**

#### **Fashion drawing**

Demonstrate from life.

- 1. Draw proportion-natural, elongated figures (men's and women's).
- 2. Draw women's poses.
- 3. Draw children's poses.
- 4. Draw women's heads.
- 5. Draw proportion-heads, hands and feet.
- 6. Draw women's hands.
- 7. Draw children's hands and feet
- 8. Draw women's feet.
- 9. Draw women's boots and shoes.

#### **Show skill of fabric representation.**

- 10. Identify depth and shine.

11. Identify wool and faux fur.
12. Identify folds and fringing.
13. Identify highlights and pleats.
14. Make embroidery.

**Show skill in sketch book.**

15. Ideas and concept.

**Show skill in fashion illustration.**

16. Show children as cartoons.
17. Illustration garments and detail.

**Drawing for manufacture.**

18. Draw the dress stand.
19. Develop the template.
20. Develop a stencil.

**Specialist areas.**

21. Active sportswear/Prepare.
22. Identify drawing accessories.

**Ref : Books.**

1. Fashion From concept of consumer.-----By Gini Stephens Frings.
2. Fashion Accessories  
The complete 20<sup>th</sup> century sourcebook  
with 2000 full- colour illustrations ----- By. John peacok
3. Fashion illustration now ----- By. Laird Borrelli
4. Illustrating fashion By----- Kathryn Mc kelvey and janine Munslow.

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**ENTREPRENEURSHIP**

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**AIMS**

- To be able to understand the concept of entrepreneurship & entrepreneur.
- To be able to understand the concept of environment for entrepreneurship.
- To be able to understand the sources of venture ideas in Bangladesh.
- To be able to understand the project selection.
- To be able to understand business planning.
- To be able to understand the case study

**SHORT DESCRIPTION**

Concepts of entrepreneurship & entrepreneur; Entrepreneurship & economic development; Environment for entrepreneurship; Entrepreneurship in the theories of economic growth; Sources of ventures ideas in Bangladesh; Evaluation of venture ideas; Financial planning; Project selection; Self employment; Entrepreneurial motivation; Business plan; Sources of assistance & industrial sanctioning procedure.

Insurance; case study.

**DETAIL DESCRIPTION**

**Theory :**

**1.0 Understand the basic concept of entrepreneurship & entrepreneur.**

- 1.1 Define entrepreneurship & entrepreneur.
- 1.2 Discuss the characteristics and qualities of entrepreneur.
- 1.3 Mention the classification of entrepreneur.
- 1.4 Discuss the case entrepreneurship and mass entrepreneurship.
- 1.5 Discuss the necessity of entrepreneurship as a career.
- 1.6 Discuss the function of entrepreneur in developing countries.
- 1.7 Discuss the prospect of entrepreneurship development in Bangladesh.

**2.0 Understand the concept of entrepreneurship and economic development.**

- 2.1 Define economic development.
- 2.2 Discuss that the economic development is a process.
- 2.3 Describe the entrepreneurship as a factor of economic development.
- 2.4 Discuss the capital accumulation or rate of savings.
- 2.5 Discuss the role of entrepreneur in the technological development and their introduction into production Process.
- 2.6 Discuss the entrepreneur in the discovery of new sources of resources.
- 2.7 Discuss the entrepreneur in the discovery of new product.
- 2.8 Discuss the discovery of new markets.

**3.0 Understand the concept of entrepreneurship in the theories of economic growth.**

- 3.1 Define entrepreneurship in the theories of economic growth.
- 3.2 Discuss the theory of need for achievement of Devid MacClelland.

- 3.3 Discuss the Malthusian theory of population and economic growth.
- 3.4 Discuss the labour theory of production and limit to growth.
- 3.5 Discuss the Keynesian theory of employment and output.
- 3.6 Discuss the stage theory of growth.
- 3.7 Discuss the Schumpeterian theory of economic development.
- 3.8 Discuss the entrepreneurship motive in economic development.

**4.0 Understand the sources of venture ideas in Bangladesh.**

- 4.1 Define sources of venture ideas in Bangladesh.
- 4.2 Discuss different types of sources of venture ideas in Bangladesh.
- 4.3 Discuss informal sources of venture ideas in Bangladesh.

**5.0 Understand the evaluation of venture ideas.**

- 5.1 Define evaluation of venture ideas.
- 5.2 Discuss the factors that influence the selection of venture ideas.
- 5.3 Discuss the evaluating financial aspects of business.
- 5.4 Discuss the determinants of the firm size.

## AIMS

**To provide opportunity to develop skill knowledge and understanding.**

- To be able to develop the working condition in the field of industrial or other organization.
- To be able to understand develop the labour management relation in the industrial sector.
- Use of management tools and techniques in the process of decision-making.
- Handling union problems.
- Making case-studies on decision-making.

## SHORT DESCRIPTION

Basic concepts of management; Principles of management; Scientific Mgt; Planning; organization; Motivation; Span of supervision; Decision making; Leadership; Budget and budgetary control; Inventory control; Economic-lot size; Break-even-analysis Personnel management and human relation; Staffing and man power development; Training of staff; Job evaluation and merit rating; Industrial dispute; Concept of leadership; Trade union; Labour laws and industrial laws

## DETAIL DESCRIPTION

### Theory :

#### **1.0 Understand the basic concepts & principles of management.**

- 1.1 Define management and industrial management.
- 1.2 State the objectives of modern management.
- 1.3 Describe the scope and functions of management.
- 1.4 State the principles of management.
- 1.5 Discuss the terms: administration, organization, and management.
- 1.6 State the activity level of industrial management from top personnel to workmen.
- 1.7 Describe the reaction among administration, organization & Management.
- 1.8 Explain the social responsibilities of management.

#### **2.0 Understand the concept of scientific Management.**

- 2.1 Define scientific management.
- 2.2 Discuss the basic principles of scientific management.
- 2.3 Explain the different aspects of scientific Management.

- 2.4 Discuss the advantages and disadvantages of scientific management.
- 2.5 Describe the difference between scientific management and traditional management.
- 2.6 Describe the following four periods of management thought
  - (i) Pre-scientific management.
  - (ii) Scientific management.
  - (iii) Human relations
  - (iv) Refinement extension and synthesis of management theories and practices.

### **3.0 Understand the concept of Planning**

- 3.1 Define planning.
- 3.2 State the types of planning.
- 3.3 Discuss the steps of planning.
- 3.4 State the importance of planning
- 3.5 Describe the factors considered for planning.

### **4.0 Understand the concepts of organization and organization structure.**

- 4.1 Define management organization.
- 4.2 State the elements of management organization.
- 4.3 Discuss the types of organization structure
- 4.4 Describe different forms of organization structure.
- 4.5 Define organizational chart.
- 4.6 Describe the different types of organizational chart.

### **5.0 Understand the concept of motivation.**

- 5.1 Define motivation.
- 5.2 Discuss the importance of motivation.
- 5.3 Describe financial and non-financial factors of motivation.
- 5.4 State the motivation process or cycle.
- 5.5 Discuss the relation between motivation and morale.

### **6.0 Understand the basic concept of span of supervision.**

- 6.1 Define span of supervision and optimum span of supervision.
- 6.2 Discuss the considering factors of optimum span of supervision.
- 6.3 Discuss advantages and disadvantages of optimum span of supervision.
- 6.4 Define delegation of authority.
- 6.5 Explain the principles of delegation of authority.
- 6.6 Explain the terms: authority. Responsibility and duties.

### **7.0 Appreciate decision-making and techniques of decision-making.**

- 7.1 Define decision-making.
- 7.2 State the necessity and importance of decision –making.
- 7.3 Discuss the types/classification of decision-making.
- 7.4 Explain the techniques/steps in decision making
- 7.5 Enumerate the aids to decision-making.
- 7.6 Advantages of good decision.



## **8.0 Understand the concept of leadership.**

- 8.1 Define leadership.
- 8.2 Discuss the importance and necessity of leadership
- 8.3 Discuss the functions of leadership.
- 8.4 Identify of types of leadership.
- 8.5 Describe the qualities of a leader.
- 8.6 Distinguish between autocratic leader and democratic leader.

## **9.0 Understand the concept of personnel management and human relation.**

- 9.1 Define personnel management.
- 9.2 Describe the scope of personnel management.
- 9.3 discuss the importance of personnel management.
- 9.4 Discuss of functions of personnel management.
- 9.5 Discuss the disadvantages of personnel management in Bangladesh.
- 9.6 Describe the way solving problems of personnel management in Bangladesh.

## **10.0 Understand the staffing and manpower development.**

- 10.1 Define staffing.
- 10.2 Discuss the importance and necessity of staffing.
- 10.3 Define recruitment and selection of employees.
- 10.4 Describe various sources of recruitment of employees.
- 10.5 Describe the various methods of selection of employees.
- 10.6 Discuss the advantages and disadvantages of internal sources of recruitment.
- 10.7 Discuss the disadvantages of external sources of recruitment.
- 10.8 Discuss manpower planning.
- 10.9 Describe advantages and limitations of manpower planning.

## **11.0 Understand the concept of industrial dispute.**

- 11.1 Define industrial dispute.
- 11.2 Discuss the elements of industrial dispute.
- 11.3 Describe the causes of industrial dispute.
- 11.4 Discuss the modes of dispute settlement in Bangladesh.
- 11.5 Explain the terms.
  - Strike.
  - Lock-out
  - picketing
  - Gherao
  - Go slow.

## **12.0 Understand the different aspects of trade union.**

- 12.1 State the objectives of trade union.
- 12.2 Discuss the functions of trade union.
- 12.3 State major trade unions in Bangladesh.
- 12.4 Explain the rules of application for registration of trade union in Bangladesh.
- 12.5 Explain the causes of weakness of trade unions in Bangladesh.

**13.0 Understand the various labor and industrial laws/acts.**

13.1 Explain the importance of labor and industrial acts/laws.

13.2 Explain the following acts and laws.

Factories act

Minimum wages act

Industrial disputes act

Workmen compensation act

Trade union act