

**MAHARSHI DAYANAND UNIVERSITY, ROHTAK**  
**SCHEME OF STUDIES AND EXAMINATION**  
**B.TECH (FASHION & APPAREL ENGG) SEMESTER-VII**  
**'F' Scheme**  
**EFFECTIVE FROM THE SESSION 2012-13**

Course No.	Course Title	Teaching Schedule				Marks of Class work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FA-401-F	Printing of Textiles	3	1	-	4	50	100	-	150	3
FA-403-F	Textile and Apparel Costing	3	1	-	4	50	100	-	150	3
FA-405-F	Automation in Garment Industry	3	1	-	4	50	100	-	150	3
FA-407-F	Computer Aided Designing	3	1	-	4	50	100	-	150	3
FA-409-F	Fashion Selection	3	1	-	4	50	100	-	150	3
FA-411-F	Indian Business Environment	3	1	-	4	50	100	-	150	3
FA-413-F	Printing Lab	-	-	3	3	50	-	50	100	4
FA-415-F	Apparel Design by CAD	-	-	3	3	50	-	50	100	4
FA-417-F	Garment Industry Practice	-	-	-	-	-	-	300	300	4
FA-418-F	Seminar	-	-	2	2	-	-	-	-	-
FA-419-F	Project Work (Mid Term Evaluation)	-	-	2	2	-	-	100	100	4
<b>Total</b>		<b>18</b>	<b>6</b>	<b>10</b>	<b>34</b>	<b>400</b>	<b>600</b>	<b>500</b>	<b>1500</b>	

## FA-401-F PRINTING TECHNOLOGY

L     T     P  
3     1     -

Class work     :     50  
Examination    :     100  
Total            :     150  
Exam duration:     3 hrs

**NOTE:** Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### Unit I

Different methods and styles of printing of natural and synthetic fabrics, machinery involved: Block, Roller, Rotary & Screen, Transfer Printing.

### Unit II

Design making and screen exposing - Table, Flat-bed, Rotary screen. Ink-jet printing, Xerographic printing, Lithographic printing, etc.

### Unit III

Printing with reactive dyes and pigments.

Special effects like – Batik, Tie and dye.

### Unit IV

Some special printing: Wax prints, Java prints, Fancy prints, Bleeder style, Crimp style, Burnt-out style, etc.

### Reading List

Title	Author
Technology of printing	VA Shenai
Textile Printing Second annual Symposium	R B Chavan

## FA-403-F TEXTILE AND APPAREL COSTING

L     T     P  
3     1     -

Class work     :     50  
Examination    :     100  
Total            :     150  
Exam duration:     3 hrs

NOTE: Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### Unit I

General Cost Concept: Classification of cost (Fixed, Variable, Semi-variable and Total Cost), Cost elements (direct, indirect), planning and storage of materials, pricing and control of materials, computation and control of labour cost, Remuneration and incentives to labour. Over head costs: Classification and accumulation, allocating service department costs, distribution and absorption, marketing and administration, depreciation and miscellaneous.

### Unit II

Methods of costing: Single or output costing, job order cost system, introduction to other methods of costing. Cost control techniques: standard costing, variance analysis (Materials and labour, overheads, sales and marketing). Cost control and cost reduction. Research and development cost: cost of product design, R & D budget, accounting treatment.

### Unit III

Costing in textile industry: Cost structure, raw material cost, labour cost and other expenses. Yarn realization, determination of cost per kg of yarn, per meter of fabric. Cost of dyeing/printing per meter fabric. Value loss, selling price decision of fabric. Costing in apparel industry: Raw material cost, labour cost and other expenses. Cost analysis of different garments with example.

### Unit IV

Dollar Planning and control: Introduction, Responsibilities for a dollar plan, Requirements of a dollar plan, Approach to a dollar plan, Elements of the dollar plan (planned sales, Planned Stock – Stock turnover, Stock/Sales ratio. GMROI. The relationship between stock turnover and stock/sales ratio). Retail inventory method- Advantages, Applications.

### Reading list

Title	Author
Advanced cost accounting	B.M.L. Nigam, G.L. Sharma
Fashion Buying & Merchandising	Sidney Packard
Fashion Design & Product Development	Harold Carr / John Pomeroy
Costing of apparel	Michael Jeffry

## FA-405-F AUTOMATION IN GARMENT INDUSTRY

L     T     P  
3     1     -

Class work     :     50  
Examination    :     100  
Total            :     150  
Exam duration:     3 hrs

NOTE: Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### Unit I

Automation in the apparel Industry. Automation in the retail industry. Computer integrated manufacturing in the textile industries. Automated material handling

### Unit II

Robotics

Requirement for automation in today's textile manufacturing environment

### Unit III

Quick response & Technology

Evolution of computer integrated manufacturing systems

### Unit IV

Emerging technologies , Nature of trade & future of the apparel industry.

#### Reading list

Title	Author
Automation in the textile industry	G.A.Berkstresser, Buchanan, Grady
From fibres to apparel	

## FA-407-F COMPUTER AIDED DESIGNING

L     T     P  
3     1     -

Class work     :     50  
Examination    :     100  
Total            :     150  
Exam duration:     3 hrs

**NOTE:** Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### Unit I

Fundamentals of CAD: Definition, History , Hardware and Software requirements of CAD, Design Process, Application, Use, Creating the manufacturing Data base and benefits of CAD.

### Unit II

Hardware in CAD: Introduction, Design workstation, Graphics terminal, input and output devices, central processing unit and secondary storage.

### Unit III

Introduction to Computer Graphics – What is Computer Graphics, Computer graphics applications, Computer Graphics Hardware and Software. Two dimensional graphics primitives – Point and Lines, Line drawing algorithms: DDA, Bresenham's; Circle drawing algorithms: midpoint circle drawing algorithm, Bresenham's circle drawing algorithm.

### Unit IV

Introduction to Software Packages: Introduction to Auto-CAD: Features, Basic Drawing Techniques: Drawing Line, Circle, Rectangle, Arc, Polyline, Ellipse, Elliptical Arc, Polygons, Donuts, Corner rounding, Chamfering, Displacing, Duplicating, Removing Objects.

Introduction to Corel Draw – Features and basic drawing techniques.

Introduction to Photoshop – Features and basic drawing techniques.

### Reading list

Title	Author
Computer Aided Design & Manufacturing	Mikcle P Groover, Emory W.Zimmers Jr
Computer Graphics Principles & Practices Second Edition	James D Foley, Andeies Van Da Shvan K Feiner. John F Hughes
Computer Graphics	Donald Mearn & M Pauline, Baker
Mastering AUTOCAD 2004 & AUTOCAD LT 2004	George Omura

## **FA-409-F FASHION SELECTION**

L     T     P  
3     1     -

Class work     :     50  
Examination    :     100  
Total            :     150  
Exam duration:     3 hrs

**NOTE:** Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### **Unit I**

Children's Wear: Size categories for children's wear – infants, toddlers, young children and older girls. Selling seasons – Fall/Back to school, Holiday, Cruise/spring and Summer. Common fibres, fabrics, prints and trimmings. Sources of inspiration for children's wear. Designing of some garments.

### **Unit II**

Women's Wear: Tops and Coats – different bodices, use of darts, ease gopres and yokes to design tops, different types of sleeves and placket finishes, knit styling. Designing of some women's wear garments

### **Unit III**

Skirts – Basic skirt shapes and their variations, skirt lengths and waistband treatment.

Dresses – Different dress categories like junior dresses, contemporary dresses, Missy dresses.

### **Unit IV**

Men's wear – Historical development of menswear, menswear manufacturing plant, menswear designer. Sources of inspiration, constructional details in menswear. Designing of menswear.

### **Reading List**

<b>Title</b>	<b>Author</b>
Inside Fashion Design	Sharon Lee Tate
Inside Fashion Business	Kitty GDickerson

## **FA-411-F INDIAN BUSINESS ENVIRONMENT**

L      T      P  
3      1      -

Class work    :    50  
Examination   :    100  
Total            :    150  
Exam duration :    3 hrs

**NOTE:** Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### **Unit I**

Nature, Components and Determinants of Indian Business environment. General concept: GNP, GDP, BOT, BOP, Fiscal Policy, Monetary Policy, Fiscal Deficit, etc.

### **Unit II**

New economic policy, EXIM Policy, Economic Reforms – Liberalization, Privatization, Globalization., Public enterprise reforms and Disinvestments programmes.

### **Unit III**

Financial Institutions and their role. Concept of Stock exchanges and Role of SEBI.

World Bank and IMF and their impact on Indian Business Environment.

### **Unit IV**

WTO – Genesis, Agreement, Rounds, Impact on Indian Business Environment, Indian Business Scenario.

National textile policy and Role of BIFR.

### **Reading List**

<b>Title</b>	<b>Author</b>
Indian Economy	TR Jain
Economic Environment of Indian Business	Mishra & Puri
Business Environment	Francis Cherunilam
International Marketing	Cateora
International Marketing	Onkvisit & Shaw

### **FA-413-F PRINTING LAB**

L	T	P	Class work	:	50
-	-	3	Examination	:	50
			Total	:	100
			Exam duration:		4 hrs

Understanding of screen and block and stencil printing.

Printing of cotton, wool, silk, linen with direct resist and discharge printing. Pigment printing. Direct, discharge, resist and sublimation transfer printing of polyester fabrics. Printing of garments. Batik printing, different designs of tie-dye printing. Burn out printing, glittering printing, etc.

### **FA-415-F APPAREL DESIGN BY CAD**

L	T	P	Class work	:	50
-	-	3	Examination	:	50
			Total	:	100
			Exam duration:		4 hrs

Introduction to graphical representations – live graphics, pixel graphics. Graphic systems and peripherals. Graphic standards/formats, file conversion initiatives, drawing simple geometric figures. Implementation of various aspects and commands of Corel Draw including 2D and 3D graphic design, other Design Software ( Textile and Garments) and drawing objects such as Line, Circle, Arc, Ellipse, Elliptical Arcs, Xlines, Rays, Multiline, Polylines, Rectangles, Polygons, Donuts and Spline etc.

### **FA-417-F GARMENT INDUSTRY PRACTICE**

L	T	P	Class work	:	-
-	-	6-WEEKS SUMMER TRAINING	Examination	:	300
			Total	:	300
			Exam duration:		4 hrs

Each student individual or in association with some other student at the end of Third B.Tech course will observe and collect the general and technical informations pertaining to machinery, raw material used, yarns, fabrics and garments produced by the textile mill/ garment manufacturing unit/Apparel Export house, in which he/she is undertaking 6 weeks' practical training with the approval of Director, TITS.



### **FA-418-F SEMINAR**

L	T	P
-	-	2

Class work	:	-
Examination	:	-
Total	:	-
Exam duration:		-

Each student will have to deliver a talk on the topics, in the weekly period allotted to the subject pertaining to his project work or any topic assigned by Head of the Department.

The performance of the speaker would be judged in the class by Board of Examiners. Awards will be given in the Eighth Semester

### **FA-419-F PROJECT WORK (Mid Term Evaluation)**

L	T	P
-	-	2

Class work	:	-
Examination	:	100
Total	:	100
Exam duration:		4 hrs

An independent investigation of a problem in Textile/Apparel/ chemical processing under the supervision of a faculty advisor. A clear and systematic written presentation of the preliminary investigations like Project synopsis, Literature review, Project methodology, Material to be procured and Test methods will be adopted, References will have to be submitted atleast 15 days before the commencement of the Seventh Semester Examinations.

**MAHARSHI DAYANAND UNIVERSITY, ROHTAK**  
**SCHEME OF STUDIES AND EXAMINATION**  
**B.TECH (FASHION & APPAREL ENGG) SEMESTER-VIII**  
**'F' Scheme**  
**EFFECTIVE FROM THE SESSION 2012-13**

Course No.	Course Title	Teaching Schedule				Marks of Class work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theor	Practical		
FA-402-F	High Tech Garments	3	1	-	4	50	100	-	150	3
FA-404-F	Quality Assurance in Apparel Industry	3	1	-	4	50	100	-	150	3
FA-406-F	Fashion Accessories	3	1	-	4	50	100	-	150	3
FA-408-F	Retailing and Fashion Promotion	3	1	-	4	50	100	-	150	3
FA-410-F	Chemical & Mechanical Finishing of Textiles	3	1	-	4	50	100	-	150	3
FA-412-F	Advance Apparel Construction Techniques <u>OR</u> Home Fashions	3	1	-	4	50	100	-	150	3
FA-414-F	Apparel Draping & Grading	-	-	3	3	50	-	50	100	4
FA-416-F	Advance Apparel Construction Lab <u>OR</u> Home Fashions Lab	-	-	3	3	50	-	50	100	4
FA-418-F	Seminar	-	-	2	2	200	-	-	200	4
FA-420-F	Project Work	-	-	2	2	100	-	100	200	4
<b>Total</b>		<b>18</b>	<b>6</b>	<b>10</b>	<b>34</b>	<b>700</b>	<b>600</b>	<b>200</b>	<b>1500</b>	

## FA-402-F HIGH TECH GARMENTS

L	T	P
3	1	-

Class work	:	50
Examination	:	100
Total	:	150
Exam duration:		3 hrs

**NOTE:** Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### Unit I

High Tech Garments – Definition and different types. Brief idea about properties and uses of specialty fibers like Nomex, Kevlar, Glass fiber, components as conductive yarns, shape memory materials, phase change material used in high tech garments.

### Unit II

Protective clothing: General requirement of protective clothing. Chemical protective clothing (CPC) – Areas of use, CPC items for air-born, liquid hazard. Different chemicals used, parts of CPC, Performance evaluation – Permeation, Solubility and diffusion theory, Barrier effectiveness, structural integrity.

Thermal Protective Clothing - Combustion mechanism, fire governing parameters, Requirements, designing of TPC, Construction, various parameters affecting flame retardency, Performance evaluation.

Pesticide Protective Clothing – Requirements of protective clothing, different areas, different parts of PPC, Performance evaluation of PPC.

Antimicrobial clothing – Requirement, microbiology of skin clothing interface, approach to produce antimicrobial fabrics, performance evaluation.

Ballistic Protective clothing – Requirements, principle of mechanism, different fibers and fabrics, soft and hard armor, Factors influencing performance.

### Unit III

Medical Responsive Garments – Definition, requirements, fibres, classification, working of artificial tandem and alignments, kidney, heart, surgical product, cardiovascular graft, sterilization, wound care.

Smart Electronic Clothing – Requirement, different sensor, processing of conductive yarn, implementation level of SOT, superhuman wardrobe, application in defense.

Sportswear – Requirement, different fibers used, approaches for manufacture.

#### **Unit IV**

Breathable apparel – Introduction, principle, classification and use. Moisture management fabric, polar technology, power dryetc.

High visibility apparels – Introduction, requirements, material, different classifications, design features.

Smart Colourants – Definition different types and application.. Different parts of space suit.Different parts of space suits.

Different textiles used as packaging material-types and properties

#### **Reading List**

<b>Title</b>	<b>Author</b>
The Super modern Wardrobe	Bolten, Andrew
Smart Fibres, Fabrics & Clothing	Tao, Xiaoming
Protective Clothing System & Material	Raheel, Masturaed

## FA-404-F QUALITY ASSURANCE IN APPAREL INDUSTRY

L     T     P  
3     1     -

Class work     :     50  
Examination    :     100  
Total            :     150  
Exam duration:     3 hrs

NOTE: Examiner will set 9 questions in total, with two questions from each unit and one

question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type.

mark (20 marks).

Each question carries equal  
Students have to attempt 5

questions in total at least one question from each unit

### Unit I

Definition & importance of Quality, Tools of quality control,

### Unit II

Quality Control – Principles of Quality Control, total quality control, statistical quality control, quality circle, quality and profitability, Quality control in fusing.

### Unit III

Inspection – Definition, inspection, loop, raw material inspection, in-process inspection, final inspection, comparability checks.

### Unit IV

ISO-9000 series of standards. Quality assurance, TQM, Six Sigma. Care labeling of apparel and textiles – American care labeling system, British care labeling system, Japanese care labeling system.

#### Reading List

##### Title

##### Author

An Introduction to Quality Control for the apparel industry

Pradip V Mehta

Managing Quality in the Apparel Industry

Satish Bhardwaj & V Mehta

The Technology of Clothing Manufacture

Harold Care & Barbara Latham

## FA-406-F FASHION ACCESSORIES

L     T     P  
3     1     -

Class work     :     50  
Examination    :     100  
Total            :     150  
Exam duration:     3 hrs

NOTE: Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### Unit I

Fashion Accessories – definition and classification. Usage of different raw materials as leather, fur, beads, metal etc. Various notions and trims used in fashion accessories.

### Unit II

Leather Accessories: Brief idea about processing of leather, fashion leather terminology, care of leather. Leather Garments: Pattern making, needle and sewing thread specifications and finishing of garments.

Leather Footwear: Parts of shoe, brief shoe designing – as last, development last, pattern making, die-manufacturing, cutting, fitting, assemblage of remaining components, bottoming, finishing, caring of footwear. Handbags and belts: Construction and style of each.

### Unit III

Jewellery Designing: Different metals and stones, faceted cuts used for jewellery designing. Brief production tech as fusing, soldering, cutting etc, stone settings, Different jewellery styles as rings, bracelets, necklaces, tiara etc. Different stone setting as buttercup, inlay etc.

### Unit IV

Other accessories: Glove: Material used, component part of glove, glove construction, care of glove. Hosiery: Materials, Construction, Sizes and Care. Hats: Construction, care of hats. Scarves: Construction, Care and styles.

### Reading list

Title	Author
Know your Fashion Accessories	Meadows
Fashion Apparel & Accessories	Diamond, Jay & Ellen

## **FA-408-F RETAILING AND FASHION PROMOTION**

L     T     P  
3     1     -

Class work     :     50  
Examination    :     100  
Total            :     150  
Exam duration:     3 hrs

**NOTE:** Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### **Unit I**

Introduction to Retailing, types of Retailers and Ownerships. Elements of Retail Mix. Store Organizations. Retailing market strategy and benefits of Retail marketing.

### **Unit II**

Analysis of area and site selection. Departmentalization, Layout planning and space allocation. Basic Profit Factors- the relationship of Markup to Profit. Retail Pricing & re-pricing. Inventory control.

### **Unit III**

Planning and Direction of Fashion advertising and different kinds of Advertising, Scheduling and planning (Public Media, Newspaper, Magazine, radio, Television, Direct mailing, etc.)

### **Unit IV**

Retailing and fashion promotion, Co-operative advertising, the advertising department in a retail store, Advertising agencies, Publicity, Special events, Visual presentation (Window, Interior). The buyer's role in promotion.

### **Reading list**

<b>Title</b>	<b>Author</b>
1. Introduction to the World of Retailing	Levy and Weitz; Berman and Evans
2. Retail Institutions and Multi-channel	Levy and Weitz; Berman and Evans
3. Strategic Planning in Retailing	Berman and Evans
4. Retail Market Strategy	Levy and Weitz
5. Identifying and Understanding Consumers	Berman and Evans
6. Customer Buying Behavior	Levy and Weitz
7. Store Layout, Design and Visual Merchandising	Levy and Weitz
8. Retail Image and Promotional Strategy	Berman and Evans
9. Pricing	Levy and Weitz; Berman and Evans

## **FA-410-F CHEMICAL & MECHANICAL FINISHING OF TEXTILES**

L     T     P  
3     1     -

Class work     :     50  
Examination    :     100  
Total            :     150  
Exam duration:     3 hrs

**NOTE:** Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### **Unit I**

Introduction to textile finishing. Aim and scope. Classification of finishes. Various mechanical finishes in industrial practices, like drying, conditioning, calendaring, sanfonrising, heat setting, Crabbing, decatizing, milling, peaching, raising and shrink finishing of wool etc.

### **Unit II**

Various chemical finishes like softening, stiffening, delustering of rayon, polyester, organdy finish. Silky finish of polyester. Weighting of silk.

### **Unit III**

Introduction to specialty finishes – finishing of denim fabrics, anti-crease finish, water repellent finish, flame-proof and flame-retardant finish, soil and oil repellent finish, anti-static finish, rot and mildew proofing, antimicrobial, stone wash some other specialty finishes.

### **Unit IV**

Machinery involved in these finishes. Methods of evaluation of various finishes on textile materials.

### **Reading List**

<b>Title</b>	<b>Author</b>
An Introduction to Textile Finishing	JT Marsh
Textile Auxiliaries & Finishing Chemicals	AA Vaidya, SS Trivedi
Textile Finishing	VA Shenai



## **FA-412-F ADVANCE APPAREL CONSTRUCTION TECHNIQUES**

L     T     P  
3     1     -

Class work     :     50  
Examination    :     100  
Total            :     150  
Exam duration:    3 hrs

**NOTE:** Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

### **Unit I**

Production Scheduling, Patterning and cutting procedures, Garment assembly,

### **Unit II**

Pattern making and construction techniques of shirts, pants/trousers and Jackets/Coats, Swimwear, sportswear/Actionwear, Capes or hoods.

### **Unit III**

Development of Men's Ready-to-wear, Design and production procedures of Men's tailored clothing.

### **Unit IV**

Presentation techniques – Flat sketches, Mood board, Storyboard, Portfolio.

### **Reading List**

<b>Title</b>	<b>Author</b>
Inside the Fashion Business	K G Dickerson
Fashion from Concept to Consumer	G S Frings
Pattern-making for Fashion Design	H J Armstrong
Introduction to Fashion Design	

**OR**

**FA-412-F HOME FASHIONS**

L     T     P  
3     1     -

Class work : 50  
Examination : 100  
Total : 150  
Exam duration: 3 hrs

**NOTE:** Examiner will set 9 questions in total, with two questions from each unit and one question covering all sections which will be Q.1. This Q.1 is compulsory and of short answers type. Each question carries equal mark (20 marks). Students have to attempt 5 questions in total at least one question from each unit

**Unit I**

Introduction to Home Fashion, Present scenario of Home Fashion/Textile market in the domestic and international market.

**Unit II**

Selection of raw material and the essential characteristics of Home Textile materials.  
Different home fashion fabrics – Table Linens, Bedspreads, Curtains, other draperies.

**Unit III**

Advanced fabric structures for Home Textile materials – Brocade, Damask, Gauze, Leno, Upholstery fabrics.  
Floor Coverings – Carpets (domestic and machine made and rugs).

**Unit IV**

Design criteria of Home Fashion/Textile material  
Presentation techniques – Flat sketches, Mood board, Storyboard, Portfolio.

**Reading List**

<b>Title</b>	<b>Author</b>
Watson's Advanced Textile Design	Z J Grosicki
Textile Fabrics and their Selection, 7 <sup>th</sup> Ed	Isabel B. Wongate
Fashion & Furnishing International	
Inside the Fashion Business	K G Dickerson
Fashion from Concept to Consumer	G S Frings
Pattern-making for Fashion Design	H J Armstrong
Sewing	Readers Digest

### **FA-414-F APPAREL DRAPING & GRADING LAB**

L     T     P  
-     -     3

Class work     :     50  
Examination    :     50  
Total            :     100  
Exam duration:     4 hrs

Illustration for the techniques of draping to get the fault free draped pattern. Practice of draping of basic bodice to the dress-form. Variations in bodices as per the designing details. Draping of basic skirt and hence skirt variations.

Fundamentals & techniques for Grading with the use of size-charts etc. Grading of basic bodices by z-track and 3-track method. Computerized grading on Lectra software. Practice on software available for draping and grading.

### **FA-416-F ADVANCE APPAREL CONSTRUCTION LAB**

L     T     P  
-     -     3

Class work     :     50  
Examination    :     50  
Total            :     100  
Exam duration:     4 hrs

Practice of pattern making and construction of shirts, pants/trousers and Jackets/Coats. Development of Design of Men's tailored clothing. Making of Flat sketches, Moodboard, Storyboard and Portfolio.

Computerized Apparel Design: Introduction to "Basics of Computer Aided Design for Apparel Design". Usage of different drawing and measuring tools. Basic Block construction and digitization of patterns. Pattern making of different garments, e.g. skirts, jackets through assembly of lines, points, derived pieces, fold etc.

Introduction to Grading techniques. Application of grading system to basic blocks and adaptations.

Introduction to Marker planning and marker making for different garments for maximum fabric utilization. Introduction to the plotting methods and techniques.

**OR**

**FA-416-F HOME FASHIONS LAB**

L	T	P	Class work	:	50
-	-	3	Examination	:	50
			Total	:	100
			Exam duration:		4 hrs

Introduction to the “Textile Designing & Development Software”. Practice of making Color & Weave Effects.

Developing designs for home furnishing fabrics like, Bed-sheets, curtains, table linens, etc.

Utilisation of the computerized designs for the manufacturing of the sample of home-furnishing textiles.

Making of flat sketches, Moodboard, storyboard and portfolio.

**FA-418-F SEMINAR**

L	T	P	Class work	:	-
-	-	2	Examination	:	200
			Total	:	200
			Exam duration:		4hrs

Each student will have to deliver a talk on the topics, in the weekly period allotted to the subject pertaining to his project work or any topic assigned by Head of the Department.

The performance of the speaker would be judged in the class by Board of Examiners.

**FA-420-F PROJECT WORK**

L	T	P	Class work	:	-
-	-	2	Examination	:	100
			Total	:	100
			Exam duration:		4 hrs

An independent investigation of a problem in Textile/Apparel/ chemical processing under the supervision of a faculty advisor. A clear and systematic written presentation of the results in the form of project report will have to be submitted atleast 15 days before the commencement of the Eighth Semester Examinations.