

**VIMALA COLLEGE (AUTONOMOUS)**

**THRISSUR**

**(Affiliated to University of Calicut)**



**M Sc DEGREE PROGRAMME IN**

**HOME SCIENCE**

**(TEXTILES AND COSTUME SCIENCE)**

**CREDIT AND SEMESTER SYSTEM (CSS-PG 2010)**

**SYLLABUS**

**2018 ADMISSION ONWARDS**



**M.Sc. HOME SCIENCE (TEXTILES AND COSTUME SCIENCE)**  
**COURSE STRUCTURE AND SCHEME OF EXAMINATION UNDER CSS**

Sl. No.	CORE COURSES	TITLE OF THE COURSE	INSTRUCTION HRS/ WK		CREDIT	EXAM HRS	SCHEME OF EVALUATION	
			T	P			EE WEIGHT (75%)	IE WEIGHT (25%)
I	VPTC1 C01	HISTORIC COSTUMES	5	-	4	3	3	1
	VPTC1 C02	FASHION MARKETING	5	-	4	3	3	1
	VPTC1 C03	COSTUME DESIGN AND ILLUSTRATION	5	-	4	3	3	1
	VPTC1 C04	INTRODUCTION TO FASHION DESIGN CONCEPT	4	-	4	3	3	1
	VPTC1 C05	RESEARCH METHODS AND STATISTICS	6	-	4	3	3	1
	TOTAL		25		20			
	VPTC2 C06	QUALITY ASSURANCE AND TEXTILE TESTING	6	-	4	3	3	1
	VPTC2 P01	PRACTICAL - FASHION DRAPING	-	4	4	3	3	1

<b>II</b>	VPTC2 C07	VISUAL RETAILING AND ENTREPRENEURSHIP MANAGEMENT	5	-	4	3	3	1
	VPTC2 P02	PRACTICAL - ADVANCED PATTERN ADAPTATION AND CONSTRUCTION TECHNIQUES	-	6	4	3	3	1
	VPTC2 I01	INTERNSHIP/JOB TRAINING	-	4	4	3	3	1
	<b>TOTAL</b>		<b>25</b>		<b>20</b>			
<b>III</b>	VPTC3 C08	FABRIC CONSTRUCTION AND ANALYSIS	6	-	4	3	3	1
	VPTC3 C09	TECHNICAL TEXTILES	5	-	4	3	3	1
	VPTC3 C10	TEXTILE CHEMISTRY	6	-	4	3	3	1
	VPTC3 E01	<b>ELECTIVE COURSES</b> 1.FASHION CHOREOGRAPHY 2.FASHION COMMUNICATION 3.SOCIOLOGY OF CLOTHING	3	-	4	3	3	1
	VPTC3 C11	TEXTILES AND ENVIRONMENT	5	-	4	3	3	1
	<b>TOTAL</b>		<b>25</b>		<b>20</b>			
	VPTC4 P03	PRACTICAL- QUALITY ASSURANCE AND TEXTILE TESTING	-	5	4	3	3	1

IV	VPTC4 P04	PRACTICAL - TEXTILE CHEMISTRY	-	5	4	3	3	1
	VPTC4 E02	<b>ELECTIVE COURSES</b> 1.HOME TEXTILES  2.COMPUTER APPLICATION IN FASHION DESIGNING  3. KNITT WEAR TECHNOLOGY	5	-	4	3	3	1
	VPTC4 PR	PROJECT	-	10	4		3	1
	VPTC4 V01	VIVA VOCE	-	-	4		3	1
	TOTAL		25		20			
	TOTAL CREDITS (CORE, ELECTIVE, PROJECT AND VIVA)		80					

## GRADING AND EVALUATION

### (1) Minimum Credits for pass

Accumulated minimum credit required for successful completion of the course shall be 80.

(2) **A project work** of 4 credits is compulsory and it should be done in III & IV semesters. Also a comprehensive Viva Voce may be conducted by external examiners at the end of IV Semester and carries 4 credits.

### (3) Evaluation and Grading:

All grading starting from the evaluation of papers is done on 5 point scale (A, B, C, D, E) and SGPA and CGPA – between 0 to 4 and in two decimal points. An overall letter grade (Cumulative Grade) for the whole programme shall be awarded to the student based on the value of CGPA using a 7-point scale given below.

#### Overall Grade in a Programme

CGPA	Overall Letter Grade
3.80 to 4.00	A+
3.50 to 3.79	A
3.00 to 3.49	B+
2.50 to 2.99	B
2.00 to 2.49	C+
1.50 to 1.99	C
1.00 to 1.49	D

### (4) Weightage of Internal and External valuation:

The evaluation scheme for each course shall contain two parts (1) internal evaluation (2) external evaluation. Its weightage are as follows:

<b>Evaluation</b>	<b>Weightage</b>
Internal	1 (or 25%)
External	3(or 75%)

Both internal and external evaluation will be carried out using Direct Grading System

**A) Theory: Every Semester**

Pattern of question Paper -**External marks distribution**

Division	Type	No. of Questions	Weightage	Total Weightage
Part A	Short Answer	10 out of 12	1	10
Part B	Short Essay	6 out of 8	3	18
Part C	Essay	2 out of 4	4	8
<b>Total Weightage</b>				<b>36</b>

**Internal marks distribution**

Sl.No	Criteria	Weightage
1	Attendance	<b>1</b>
2	Assignments	1
3	Seminar	1
4	Test papers-2-	2
<b>Total</b>		<b>5</b>

**B) PRACTICAL****Internal marks distribution**

<b>Sl.No</b>	<b>Criteria</b>	<b>Weightage</b>
1	Attendance	1
2	Performance	1
3	Record	1
4	Class test (2)	2
<b>Total</b>		<b>5</b>

**External marks distribution****VPTC2 P01: PRACTICAL -FASHION DRAPING**

<b>Sl No</b>	<b>Criteria</b>	<b>Weightage</b>
<b>1</b>	Grain	3
<b>2</b>	Neatness	3
<b>3</b>	Completion	6
<b>4</b>	Draping	16
<b>5</b>	Trueing up	2
<b>6</b>	Record	6
<b>Total</b>		<b>36</b>

**VPTC2 P02: PRACTICAL- ADVANCED PATTERN ADAPTATIONAND  
CONSTRUCTION TECHNIQUES**

<b>Sl. No</b>	<b>Criteria</b>	<b>Weightage</b>
1	Drafting	5
2	Construction	5
3	Grain	5
4	Neatness and Completion	5
5	Garment	10
6	Record	6
<b>Total</b>		<b>36</b>

### **VPTC4 P03: PRACTICAL- QUALITY ASSURANCE AND TEXTILE TESTING**

<b>Sl. No</b>	<b>Criteria</b>	<b>Weightage</b>
1	Principle	<b>5</b>
2	Procedure	<b>10</b>
3	Result	<b>10</b>
4	Sample presentation	<b>5</b>
5	Record	6
<b>Total</b>		<b>36</b>

### **VPTC4 P04: TEXTILE CHEMISTRY**

<b>Sl. No</b>	<b>Criteria</b>	<b>Weightage</b>
1	Principle	<b>5</b>
2	Procedure	<b>10</b>
3	Result	<b>10</b>
4	Sample presentation	<b>5</b>
5	Record	6
<b>Total</b>		<b>36</b>

### **VPTC4 PR: PROJECT**

#### **Internal Marks distribution**

<b>Sl.No</b>	<b>Criteria</b>	<b>Weightage</b>
1	Initiative	1
2	Interest in Research	1
3	Regularity	1
4	Efficiency	1
5	Writing Skills	1
<b>Total</b>		<b>5</b>



**External marks distribution**

<b>Sl.No</b>	<b>Criteria</b>	<b>Weightage (Total 36)</b>
1	Choice of the topic	1
2	Introduction and Objectives	2
3	Review of literature	5
4	Methodology	8
5	Results and Discussion	8
6	Summary and conclusion	4
7	Bibliography	4
8	Abstract	2
9	Over all	2

**VPTC4 V01- Viva Voce****Internal Marks distribution**

<b>Sl.No</b>	<b>Criteria</b>	<b>Weightage</b>
1	Preparation	1
2	Presentation	2
3	Knowledge	2
4	Total	5

**External marks distribution**

<b>Sl.No</b>	<b>Criteria</b>	<b>Weightage</b>
1	Preparation	10
2	Presentation	10
3	Knowledge	16
4	<b>Total</b>	<b>36</b>

**M SC HOME SCIENCE  
(TEXTILES AND COSTUME  
SCIENCE)**

**COURSE STRUCTURE UNDER CSS**

# **SEMESTER - I**

## **SEMESTER I**

### **VPTC1 C01 HISTORIC COSTUMES**

**Hours per week: 5            credit:4**

#### **Objectives**

1. To help students know the dress mode in all ages
2. To explain the different types of costume designs prevailing in different parts of the world
3. To give information about their origin ,fabrics, and accessories.

#### **UNIT 1 THE BEGINNING OF DRESS**

Evolution of costumes ,need and importance of clothing

#### **UNIT II COUTURE FROM ANCIENT PERIOD**

Egyptian

Men and women –garment (shendyt, loin cloth ,kalasiris),

Asiatic

Men and women –garment (pantaloons,tunic)

accessories including head& foot wear

#### **UNIT III GREEK COSTUMES**

Men and women –garment (chiton, peplos)

accessories including head& foot wear

#### **UNIT IV ROMAN COSTUMES**

Men and women –garment(loin cloth, stola ,tunic, palla, toga)

accessories including head& foot wear

## **UNIT V FRENCH COSTUMES**

Men and women –garment(chemise ,breech cloth, hose, palla, mantle ,corset)

accessories including head& foot wear

## **UNIT VI ITALIAN ,GERMAN & ENGLAND COSTUMES**

Italian

Men and women –garment(rich heavy material, large sleeves ,kirtle &gown)

German

Men and women –garment(tunic, chemise, coat)

England

Men and women –garment(cloak, tunic, trousers ,hose, kirtle gown, surcoat)

accessories including head& foot wear

## **UNIT VII COSTUMES OF INDIA**

Men & women garment ,accessories including head &footwear- Indusvalley ,Vedic  
Mauryan, Sunga, Satavahana ,Kushan, Gupta, Mughal

## **REFERENCES:**

1. Inside fashion design-Sharon Lee Tate, Harper and row, Publishers New York
2. Life Styles, Fashion Styles-Kathryn Samuel, Orbis, London
3. The Great Fashion Designers-Milbank, C.R. (1985) Couture, Thames and Hudson  
Publications
4. The Changing World of Fashion-Carter, E (1977), G.P. Putnam's Sons, New York
5. The World of Fashion-Rubin, L. G.(1976), Canfield Press, San Francisco
6. Fashion Kaleidoscope-Castelino, M. (1994), Rup & Co.

7. The Fashion Makers-Walz B. and Morris, B. (1978) , Random House
8. Lifestyle – Fashion styles-Samuel, K. (1986),Orbis Book Publishing Corporation Ltd, London
9. Fashion Design and Product Development-Carr, H. and Pomery, J. (1992), Blackwell Scientific Publications, London, Edinburgh, Boston, Abling Bina, Fashion Sketchbook, Fairchild Publishers, New York
10. The Concise History of Costume and Fashion-Laver. James , New York, Harry Abrahams, 1960
11. Costume through the ages-Laver. James , New York, Simon and Schuster, 1968
12. The Mode in Costume-Wilcox. Turner R, New York, Charles Scribner's Sons, 1958
13. Indian Costume Ghurey, G.S , Bombay, Popular Prakashan, 1951
14. Costume and Textiles of India-Bhushan Brij J., Bombay, D.B. Taraporwala & Co.
15. Historic Costumes-Lester R.N Illinois. Chas A. Benette and Co.
16. Costume Throughout the ages Ecan C.C, New York, J.B. Limancott
17. The History of Costume -Kemper Rachel H.

**SEMESTER I**  
**VPTC1 C02 FASHION MARKETING**

**Hours per week-5**

**credit:4**

**Objectives :**

1. To increase awareness of the students regarding marketing
2. To study and analyse the fashion market
3. To understand the marketing process

**UNIT-I**

Marketing mix- Definition, functions of market

**UNIT- II**

Introduction to Retailing – Definition – Functions performed by retailers. The Concept of Retailing - role of retailing in merchandising, The Retail Mix, Retail Environment,

Types of Retail stores.

Multi channel Retailing – Store channel – Catalog channel – Internet channel. Customer Buying Behavior – The buying process – Types of buying decisions

Social factors influencing the buying process –Family, Reference groups, Culture.

**UNIT-III**

Retail Pricing – Considerations in setting retail prices – Price adjustments –

Markdowns, Variable pricing and price discrimination – Pricing Strategies –

High / Low Pricing, Everyday low pricing – Pricing Techniques for increasing

Sales –Leader pricing, Price lining, Odd pricing

Advertising and Media Planning, Fashion shows and other events

Sales promotion

## **UNIT-IV**

Customer Relationship Management – Collecting customer data – Analyzing customer data and identifying target customers – converting good customers into best customers – dealing with unprofitable customers.

Marketing research and analysis – market surveys

## **UNIT-V**

Knowledge of Fashion Trends, Brands and Designers, Introduction to International designers. Business opportunities and avenues.

## **REFERENCES:**

1. Fashion Design and Product Development, Harold Carr and John Pomeroy, Black well Science Inc, Cambridge (1992)
2. Fashion Marketing, Mike Easey, Oxford University press, Wynford Drive, Don Mills, Ontario (1995)
3. Introduction to Fashion, Patrick John, B T Batsford Ltd, Ireland, Fullham road, London (1992).
4. Fashion From Concepts to Consumer, Stephens Frings, PrenticeHall, 7th Edition 2002.
5. Marketing Management, Philip Kotler, Prentice Hall, 7th Edition 1996.
6. Retailing Management by Michael Levy, Barton A Weitz, Ajay Pandit
7. The Business of Fashion designing, Manufacturing and Marketing by Leslie Davis Burns, Nancy O Bryant
8. Inside fashion Business by Dickerson Kitty G



## **SEMESTER I**

### **VPTC1 C03 COSTUME DESIGN AND ILLUSTRATION**

**Hours per week-5**

**Credit-4**

#### **Objectives:**

1. To introduce students to fashion illustration, sketching and rendering techniques.
2. To enable the students to work outward from a point of focus or inspiration to develop a complete collection.

#### **UNIT I**

Features of fashion – style, acceptance, change.

Factors affecting fashion – economic factors, sociological factors, psychological factors.

Stages of the fashion, Adoption theories of fashion

#### **UNIT II**

Human proportion and figure construction.

Methods of determining individual proportions

Heads theory- 8 head, 10 head, 12 head and 5 head for kids

Women's ensembles for pear, diamond, round, hourglass, inverted triangle, straight body types.

Men's Ensembles -short and heavy body type, short and thin body, Tall & heavy body, tall and thin body type, athletic body

Ensembles for children – infants, toddlers, Pre School, teenager, college going.

### **UNIT III**

Sketching- principles of Sketching, basic figure drawing- gesture and stance, anatomy of human figures.

### **UNIT IV**

Fashion shows-history and models-classification

### **UNIT V**

Designing and recording a fashion collection – selecting a theme, carrying out research and designing process, making samples of ensembles.

### **RELATED EXPERIENCE:**

1. Different Lines – Vertical, Horizontal, Diagonal, Wavy, zigzag, Dotted, Dashed, Spiral etc.
2. Free hand drawing techniques of brush and pencil and related exercises.
3. Introduction to different mediums- Poster Color, Water Color, Drawing Ink, Steadlers, Crayons, Charcoal Pencil, Charcoal Stick, Pencil.
4. Basic 8 Head Croqui., Basic 10 and 12 Head Croqui, Fashion Poses, Facial features and Hair style.
5. Introduction to Fashion Details – Various Silhouettes & Construction Details – Necklines, collars, Blouses, coats and jackets, Sleeves, Pleats, cowls and cascades, Skirts and pants and yokes.
6. Jewellery and footwear
7. Photoanalysis
8. Creating various textures using different techniques and mediums – Net, Knit, Denim, Velvet, Lace, Fur, Brocade, Tweed, Leather, Silk and Corduroy.

### **REFERENCES**

1. Seaman, Fashion Drawing – The Basic Principles”, 1994, B.T.Batsford, London,. Seaman Julian, Professional Fashion Illustration”, 1995, Batsford, London,.

2. Drake And Nicholas, "Fashion Illustrations" , 1994, Thames and Hudson, London,.
3. Abling Bina, Fashion Sketch Book", 2006, Fairchild publication.
4. Fashion from Concept to Consumer by Gini Stephens Frings, Prentice Hall, 2002.
5. Individuality, Suzanne Greene Marshall, Mary Kefgen, Prentice Hall, 2000.
6. Comdex fashion design, Vol I, Fashion Concepts, Dr. Navneet Kaur, Dream Tech Press,2010.
7. Comdex fashion design, Vol II, Ensembles for your body type, Dr. Navneet Kaur, Dream Tech Press,2010.
8. Comdex fashion design, Vol III, Designing and showcasing a fashion collection, Dr. Navneet Kaur, Dream Tech Press,2010.

## **SEMESTER I**

### **VPTC1 C04 INTRODUCTION TO FASHION DESIGN CONCEPT**

**Hours per week-4**

**Credit- 4**

#### **Objectives:**

1. To give information about fashion terminologies.
2. To introduce the students about fashion markets, fashion business and garment industry.

#### **UNIT - I INTRODUCTION**

Fashion terminologies- apparel, batik, boutique, calico, blended yarn, classic, cording, display, fad, fashion, high fashion, hippie style, ikat, mass fashion, mass production, natural fibers, ready- wear, prêt- a – porter, silhouette, textiles, concepts, its creation and analysis

Elements used in creating a design.

Principles of design

Color theory- Dimensions, psychological impacts, color scheme, color systems

#### **UNIT - II FUNCTIONS OF VARIOUS DEPARTMENT IN GARMENT INDUSTRY**

Design department, marketing, finance, purchasing, product and operation

#### **UNIT III FASHION BUSINESS**

Fashion cycle, Fashion designer- role in the industry

Fashion forecasting, seasons of fashion

Understanding and sketching of theme based on fashion forecast

Sourcing of raw materials.

Developing line

Spec sheet study

Sampling

Garment analyses

Costing – construction of garments

Line presentation

#### **UNIT IV FASHION MARKETS**

Fashion centers, fashion markets of the world

Designers- Indian and International- Rohit Bal, Ritu Beri, Manish Malhotra, Coco Chanel, Christian Dior, Gianni Versace.

#### **REFERENCES**

1. Inside fashion design-Sharon Lee Tate, Harper and row, Publishers New York
2. Life Styles, Fashion Styles-Kathryn Samuel, Orbis, London
3. The Great Fashion Designers-Milbank, C.R. (1985) Couture, Thames and Hudson Publications
4. The Changing World of Fashion-Carter, E (1977), G.P. Putnam's Sons, New York
5. The World of Fashion-Rubin, L. G.(1976), Canfield Press, San Francisco
6. Fashion Kaleidoscope-Castelino, M. (1994), Rup & Co.
7. The Fashion Makers-Walz B. and Morris, B. (1978) , Random House
8. Lifestyle – Fashion styles-Samuel, K. (1986),Orbis Book Publishing Corporation Ltd, London

9. Fashion Design and Product Development-Carr, H. and Pomery, J. (1992), Blackwell  
Scientific Publications, London, Edinburgh, Boston, Abing Bina, Fashion  
Sketchbook, Fairchild Publishers, New York

**SEMESTER I**  
**VPTC1 C05 RESEARCH METHODS AND STATISTICS**

**Hours per week: 6**

**Credit: 4**

**Objectives**

1. Understand the methodology of research and techniques
2. Develop skills in conducting research from planning a study to report writing
3. Apply statistical procedure to analyse numerical data draw inferences

**PART A: RESEARCH METHODS**

**UNIT I FUNDAMENTAL CONCEPT OF RESEARCH**

Meaning definition, objectives and characteristics of Research –basic research (fundamental research): applied research, action research, ex post facto research, evaluation research, historical research, exploratory research, industrial research, developmental research.

**UNIT II RESEARCH DESIGN / PROPOSAL**

Meaning and purpose of a research design or proposal, research problem definition, identification, statement of research problem, criteria for selection, definition of concepts (operational definition). Variables - types of variables, independent and dependent variables, control and intervening variables.

Hypothesis - Meaning and importance, types. Finding related literature: Significance, source, role taking.

**UNIT III RESEARCH METHODS AND TOOLS**

Methods-surveys, observation, interview, experimentation, case study (clinical method), Tools –questionnaire, schedule (for interview and observation), rating scales, attitude

scales. Development of tools – reliability, validity and item analysis. Other methods and tools of research in specialized areas.

#### **UNIT IV SAMPLING**

Census and sample method ,theoretical basis for sampling, methods of sampling ,size of sample ,merits and limitations of sampling ,sampling and non sampling errors ,reliability of sampling.

#### **UNIT V REPRESENTATION OF DATA**

Significance of diagrams, graphs, types of diagrams and graphs, limitation of diagrams and graphs.

#### **UNIT VI RESEARCH REPORT WRITING**

Principles of report writing ,basic components, preliminaries, text of reports, bibliography, foot notes, spacing ,margins, indentations , quotations , writing a scientific paper.

### **PART B: STATISTICS**

#### **UNIT I MEANING AND ADVANTAGE OF STATISTICAL PRESENTATION OF DATA**

#### **UNIT II CLASSIFICATION AND ORGANISATION OF DATA**

Classification, types, discrete and continuous variables, tabulation of data, parts of a table, types of table and general rules of tabulation.

#### **UNIT III DESCRIPTIVE STATISTICS**

1. Measures of central tendency-mean ,median, mode
2. Measures of variability –range, quartile deviation, mean deviation  
Standard deviation
3. Correlation coefficients, rank order correlation, product moment correlation – regression and prediction
4. Normal probability curve –properties, practical applications

#### **UNIT IV SAMPLING STATISTICS**



1. Statistical inference and central limit theorem
2. Null hypothesis and tests of significance
3. The chi-square
4. Testing difference between mean, proportions, standard deviations and correlations.

## **RELATED EXPERIENCE**

1. Construct a research tool.
2. Prepare a research tool.
3. Present abstract of a research report.

## **REFERENCES**

1. Kothari.C.R, Research Methodology, Wiley Eastern Ltd, New Delhi, 2000.
2. Best W L & Khan V, Research in Education, 7<sup>th</sup> edition, Prentice hall Private, New Delhi.
3. Roul L, Methodology of Educational Research, 2<sup>nd</sup> edition, Vikas Publishing House Ltd, New Delhi.
4. Gupta.SC & Kapur VK, Fundamentals of mathematical statistics, Sulthan Chand & Sons, New Delhi, 2001.

# **SEMESTER - II**

## **SEMESTER II**

### **VPTC2 C06 QUALITY ASSURANCE AND TEXTILE TESTING**

**Hours per week: 6**

**Credit: 4**

#### **Objectives:**

1. To develop an understanding of methods and techniques used to analyse textile fibers, yarns and fabrics for end use performance
2. To acquire knowledge and understanding of various structural properties of textiles and relate them to end use fabric performance and product
3. To familiarize students with the different testing equipments, their underlying principles and the international accepted standards, test methods and the language of measurement
4. To be able to analyse and interpret the results and predict the general textile behavior Performance
5. To develop understanding of the importance of quality control in textile testing

#### **UNIT I IMPORTANCE OF TEXTILE TESTING AND ANALYSIS**

Objectives & importance of textile testing. Importance of standards, different types of textile standards, Introduction to internal bodies such as ISI, ASTM, BS and AWT, national and international organizations involved in textile testing,

Quality control of textile products.

Quality standards as applicable to various types of textiles (Garments yardage, knits, woven, carpets, processing, dyeing), ecolabels- woolmark, silkmark

#### **UNIT II FIBER DIMENSIONS**

Fiber Fineness, Methods of measuring fiber fineness

Fiber length, methods of measuring fiber length Fiber strength – Single fiber method, Bundle strength method

### **UNIT III YARN TEST**

Linear Density – Direct & Indirect system, folded yarns, methods of measuring linear density of yarns from packages and skeins and from a fabric sample

Yarn Crimp

Yarn Twist – Level of twist and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness

Yarn strength – Single strand method skein method, count strength product (CSP)

### **UNIT IV TESTING AND EVALUATION OF FABRIC AND GARMENT**

Strength properties of Textile & Apparel –Terminologies and definitions like force units, Breaking strength and Tensile strength, Stress, specific stress, Tenacity, Elongation, Strain, Extension, Extension percentage, Gauge length, Elastic recovery, Force and elongation curve

Factors affecting tensile testing, fabric characteristics affecting tensile properties, tensile testing machines(specify CRE, CRL,CRT) and their working principles

### **UNIT V FABRIC TEST METHODS**

Breaking strength – Ravelled strip method, Cut strip method and Grab method

Tearing Strength – Tongue tear test, Trapezoid method, Elmendorf tear test

Bursting strength – Hydraulic / Diaphragm bursting test

Fabric Stiffness and Handle – definitions, methods of measuring fabric stiffness - Shirley stiffness test, Hanging loop method

Drape – definitions, methods of measuring fabric drape – drape meter

Crease Resistance and Crease Recovery – definitions of terms, advantages of giving resin treatment to fabrics, fabric characteristics affecting wrinkle resistance, Methods of measuring crease recovery – Tootal test, Shirley crease recovery test,

visual comparison method

i) Kawabata Evaluation system (KES) for fabrics.

ii) Fabric Assurance by Simple Testing (FAST) system.

## **UNIT VI FABRIC / GARMENT SERVICEABILITY –**

Definitions of terms – serviceability, wear durability Snagging – definition, methods for testing snag resistance of fabric

Pilling – definition, causes of pilling, stages in formation of pilling, remedies for reducing pilling, methods for testing pilling resistance of fabrics – brush and sponge pilling test, random tumble pilling test

Abrasion – definition, types of abrasion, properties affecting abrasion resistance, methods used for evaluating abrasion , flexing and abrasion method, rotary platform method, Accelerator method, edge and fold abrasion method (all in brief), assessment of abraded sample

## **UNIT VII WEAR COMFORT OF CLOTHING –**

Air Permeability – definitions, air resistance, air porosity, fabric properties and air permeability, methods for measuring air permeability of fabrics – Shirley air permeability tester

Fabric wicking- longitudinal wicking, wicking test methods – Vertical wicking and Transverse wicking

Water Absorption of Fabrics – Water absorption, methods of measuring amount of water absorbed – static Immersion test

Wettability of fabrics – definition, methods used or testing wettability of fabrics

Sinking time test of fabrics

Water Repellency of Fabrics – Definitions of waterproof shower proof, water repellent fabrics. Methods for measuring the water repellency of fabrics – Spray test, Bundesmann test, Drop penetration test, WIRA shower test

Colour Fastness – Introduction, colour fastness test methods to washing, drycleaning, light, crocking, perspiration, heat (hot pressing)

## **REFERENCES:**

1. Principles of Textile Testing – J.E.Booth, Newness Butterworth, London

2. Textile Testing and Analysis – Billie J. Collier and Helen E. Epps, Prentice Hall, New Jersey
3. Textile Testing – John H. Skinkle, Brooklyn, New York
4. Handbook of Textile Testing and Quality Control – Groover and Hamby
5. An Introduction to Quality Control for Apparel Industry – Pradip V. Mehta, Marcel Dekker, New York
6. Textile Objective measurement Automation in Garment Manufacture – George Stylios – Ellis Horwood Ltd, England
7. Knitted Clothing Technology – Brackenbury Terry, Blackwell Science Ltd
8. Textile Testing & Quality Control Standards like – BIS, BS, ASTM, ISO, AATCC,

**SEMESTER II**  
**VPTC2 P01 FASHION DRAPING (P)**

**Hours per week: 4**

**Credit: 4**

**Objectives:**

1. To teach the students the basics principles, and interpret and analyze complex drapes.
2. To enable students to create their original designs on a three dimensional form using draping method.

**UNIT I**

Fabric characteristics and terms.

Dress form: Preparation, Measurement and Tools.

Draping principles and techniques.

**UNIT II**

Basic dress foundation: Front and Back bodice, Front and Back straight skirt

Dart manipulations

Dart equivalents: Gathers, Pleats, Tucks

Yokes

Neckline variations- raised, cowl, collars – shawl, Chinese,

Sleeves- Basic sleeve ,puff, full, tulip, plain, kimono

**UNIT III**

Bodice styles: Classic princess drape, Surplice, Off –Shoulder, will power.

Skirts: A-line, flare, Stylized yoke with pleat / flare skirt, Skirt with gathered waist line.

## REFERENCES

1. Draping for apparel design –Helen Joseph-Armstrong
2. The art of fashion draping –Connie Amaden-Crawford
3. Draping for fashion design-Hilde Jaffe,NurieRelis
4. Designs cutting and draping for special occasion clothes,for evening wear and party Wear, Drawncloak, Chryssalis
5. Dress design-draping and flat pattern, hill house MS,HoughtonMifflin co London USA.
6. The theory of fashion design, Brockman, Magritha,John Wiley sons, NewYork
7. Design through draping, Sheldon, Martha Burgers Publishing company, Minneapolis,USA.
8. Modern pattern design ,Popin, Harut,Funk and Wagnalls, New York and London



**SEMESTER II**  
**VPTC2 C07 VISUAL RETAILING AND ENTREPRENEURSHIP**  
**MANAGEMENT**

**Hours per week: 5**

**Credit: 4**

**Objectives:**

1. To sensitize /orient to the concept of visual merchandising
2. To provide the basic working tools and skills related to visual merchandising
3. To acquire the advanced knowledge of Boutique

**UNIT I**

Objectives of Display, use of colour and texture, line and composition, use of light and effect of Lightings, kinds of display and settings

**UNIT II**

Location management- Store Exterior, Window Display, Store Interior

**UNIT III**

Equipments used- Mannequins, Fixtures, Visual Merchandising and Dressing Fixtures, Furniture as props

Attention getting devices, Familiar symbols, Masking and proscenia, Sale ideas, Fashion Accessories, Graphics and Signage

Store Planning and Design, Career opportunities in Visual Merchandising

**UNIT IV**

Entrepreneurship – Definition, characteristics, employment promotion

- II. Business environment for the entrepreneur Government of India's policy towards promotion of entrepreneurship, reservations and sanctions for small scale sector.
- III. Agencies for development of entrepreneurship

## **UNIT V**

Technical communication – Importance of Business communication, Principles, Procedures, Formulation of project proposal, budget estimate and Feasibility of report.

Establishing an enterprise – problems, information, source / schemes of assistance etc.

Managing the Boutique– Store management responsibilities – Controlling costs.

Labour scheduling, store maintenance – Reducing inventory shrinkage.

Boutique Design – Layouts – signage and Graphics – Feature Areas – Space management – Visual Merchandising –Fixtures, Presentation techniques.

Customer Service strategies

### **REFERENCES:**

1. Visual Merchandising and Display / Edition 5by Martin M. Pegler, Fairchild
2. Publication.
3. Contemporary Visual Merchandising and Environmental Design by Jay
4. Diamond, Ellen Diamond in Books
5. Visual Merchandising and Store Design Workbook by Greg M. Gorman - ST
6. Publications (1996)
7. Visual Merchandising by ST Media Group International, Incorporated

## **SEMESTER II**

### **VPTC2 P02 ADVANCED PATTERN ADAPTATION AND CONSTRUCTION TECHNIQUES (PRACTICAL)**

**Hours per week-6**

**Credit 4**

#### **Objectives:**

1. To understand the different methods of pattern making- viz. Drafting, Flat pattern, Draping.
2. To develop the skill and ability to design and develop draft patterns for different garments based on body measurements and adaptations.
3. To develop skills in handling different fabrics, embellishments and quality of finishing of garments

#### **UNIT I**

##### **PATTERN ADAPTATION**

Bodice- dart transfer- one dart to two dart, princess seams, one dart to three dart

Yokes

Sleeves- puff, flutter, tubular, tulip, kimono, raglan

Skirts- gathered, A-line, flare, circular, cowl/ pegtop

Neckline- raised and cowl

Pants-capri

#### **UNIT II**

##### **GARMENT CONSTRUCTION**

Drafting of adult basic block- bodice, skirt, sleeve

Construct garments using following theme - Ethnic wear or Party wear

- Salwar / Chudidar and Kameez / Kurta or
- Chaniya Choli

Western or Indo-Western outfit

- Trousers and Top or
- Skirt and Top or
- Dress/ gown

## **REFERENCES:**

1. Practical Dress Design-Erwin, Mable, New York, Macmillan Co., 1964.
2. A Tailoring Manual-Strickland Gertue, New York, Macmillan, 1976.
3. Easy Cutting-Juvekar, W.B.
4. System of cutting-Zarapkar, K.R., Bombay, Zarapkar Tailoring College.
5. Basic Fashion Design-Ireland, Patrick, London, B.T. Batsford Ltd., 1972.
6. Reader's Digest Complete Guide to Sewing, Reader's Digest Association, 1982.
7. Pattern Making for Fashion Designing-Armstrong, H. (1987), New York Harpes

## **SEMESTER II**

### **VPTC2 I01 INTERNSHIP/ JOB TRAINING**

**Hours per week: 4**

**Credit: 4**

#### **Objectives:**

1. To get an exposure to the working situation in the industry.
2. To develop skills of entrepreneurship management.
3. To develop aptitude through experiential learning:

- a) **One month internship in a reputed export house/boutique/a firm of student's choice.**
- b) **Report to be produced.**

# **SEMESTER - III**

## **SEMESTER III**

### **VPTC3 C08 FABRIC CONSTRUCTION AND ANALYSIS**

**Hours per week-6**

**Credit 4**

#### **Objectives:**

1. To help students to understand the different yarn numbering systems and weaving calculations.
2. To enable the students to gain knowledge of different weaving machines and weaving mechanism.
3. To acquire knowledge of the different types of fabric structures and design and be able to prepare woven designs with suitable draft and peg plan.
4. To enable the students to analyze different types of weave patterns
5. To learn the principles of creating different colour and weave effects in weaving.
6. To learn to set the sample looms and weave different designs

#### **UNIT I**

Weaving- Looms – Brief introduction to working of the following looms – Tappet, Dobby, Jacquard, Shuttle less looms (projectile, rapier, water jet, air jet and circular loom), 3D weaving .Basic operations in weaving (Shedding, picking, beating, take up, let off), Drawing in knotting and denting plans.

Elements of Woven Design – Weave repeat unit, Construction of drafts and lifting plans, Relation between design, Draft and lifting plan, Construction of drafts and lifting plans from the design, Systems of drafting, Heald calculation.

#### **UNIT II**

Elementary Weaves

Plain Weave – Introduction, Classification of plain cloth,

Derivatives - Warp rib weave, weft rib weave, matt, Ornamentation of plain weave

Twill weave – Introduction, Balance and unbalance twill, angle of twill, Weaves constructed on twill bases- Herringbone twill, broken twill, transposed twill, elongated twill, diamond twill and pointed twill

Sateen and satin weaves – General characteristics, regular and irregular sateens and satin

### **UNIT III**

Other weaves – Diamonds and Diapers, Crepe, Honeycomb, Huckaback, Mockleno, Brightons Honeycomb, Bedford cord, Welts and Pique

Extra weft and extra warp figuring effects

Lappet and swivel figured fabrics

Pile weaves- warp pile, weft pile

Leno/Gauze , Damask, Double cloth

### **Related experience**

Analysis of different woven samples studied in theory for design, repeat, draft, peg plan and other details on inch graph paper

### **REFERENCES:**

1. Watson Textile Design and Colour– Grosicki, Z.J, Newness Butter Worths.
2. Advance Textile Design –William Watson , Longmans Green and Co. Ltd.
3. Grammar of textile Design- Nisbet H., Taraporewale Sons and Co., Bombay.
4. Weaving Mechanisms – K.T. Aswani Mahajan Book Distributors, Ahmedabad.
5. Weaving Calculations – R. Sengupta, Taraporewale Sons and Co., Bombay
6. Woven Cloth Construction – Robinson and Mark, Butter Worth and Co.Ltd, London.
7. Elements of Weaving – Thorpe, Azaba, Doubleday and Co. New York
8. Modern Weaving – Singh R. H., Mahanjan Book Distributors, Ahmedabad.
9. Weaving Technology – Kulkarni M.M., Virinda, Publication, Jalgaon.



10. Yarn and Cloth Calculation. – Amalsar D.M
11. Handloom Weaving –Amalsar D.M.
12. Fabric Structure and Cloth Analysis -Amalsar D.M.
13. Geotextiles Handbook – T.S. Ingold and K. S. Miller, Thomas Telford
14. Textiles – Fibre to Fabric - B. P. Corbman
15. Textiles 3rd edition - N. Hollen and J.Saddler

**SEMESTER III**  
**VPTC3 C09 TECHNICAL TEXTILES**

**Hours per week-5**

**Credit 4**

**Objectives:**

1. To familiarize the students with technical textiles and its future prospects.
2. To acquaint the students with technical fibers, yarns and fabric structure.
3. To familiarize student with various application of technical textiles.

**UNIT I**

Introduction, Definition, Scope & Development. Processes, Applications, Globalizations, Future prospects of technical textile industry

**UNIT II**

Brief introduction to Technical fibers and yarns- Conventional and New developed fibers and yarns and their applications

**UNIT III**

Technical Fabric Structures a) Brief study of woven and knitted fabrics b) Detailed study of Non woven structure –Introduction, methods of batt production, different methods of web laying, flash spinning, melt blown, different methods of bonding, Hydro entanglement process. Finishing of Technical Textiles- Introduction, Processes, Mechanical, Heat setting and Chemical process

**UNIT IV**

Brief introduction to Textile Reinforced – Composite material, Smart Textiles, Nano tech in textiles-Nano fibres & Nano finishes.

**UNIT V**

Application of Technical Textiles – Meditech, Agrotech, Mobiltech, Buildtech, Clothtech, Geotech, Homtech, Indutech, Oekotech, Packtech, Protech, Sporttech.

1. Handbook of Technical Textiles – Edited by A R Horlocks and S C Anand.

2. Technical Textiles – C Byrne, Textiles Marg issue 2.95, 1995.
3. Specialty Fibers for Technical Textiles – J E McIntyre, Dept. of Textile Industry University of Leeds.
4. Handbook of Textile Fibers, Manmade Fibers – JG Cook, 5th edition, Merrow 1984.
5. Woven Cloth Construction – AT Robinson and R Marsh, The Textile Institute Manchester, 1973
6. Contribution of Knitting to Current & Future Developments in Technical Textiles- S C Anand, Conference of Technical Textiles Group, The Textile Institute ,Manchester, 1988
7. Production & Properties of Non – Woven – A Newton & J E Ford, Textile progression,1973.
8. Developments in Non – woven fabrics – A T Purdy, Textile Progression, 1980.
9. Coated Fabrics – K Krishna J 1995.
10. Coated Fabrics – F Bohin et al., 1998.
11. An Introduction to Composite Materials – M G Bader, University of Surrey 1997
12. Composite Materials: Engineering and Science – F L Mathews & R Rawlings, Chapman and Hall, London 1994
13. Coated Fabrics – S J Krishnan, 1991
14. Related Published bound book of papers from SASMIRA & BTRA

**SEMESTER III**  
**VPTC3 C10 TEXTILE CHEMISTRY**

**Hours per week-6**

**Credit 4**

**Objectives:**

1. To be acquainted with the polymers of which the textile fibers are made.
2. To familiarize with the principles of chemical processing i.e. from preparatory process to finishing of textiles
3. To understand the chemistry, production and fundamental properties of natural and synthetic dyes

**UNIT I POLYMER CHEMISTRY**

Definition of Polymers, its types, degree and methods of polymerisation, polymerisation process, molecular weights of polymers and its determination. Orientation and crystallinity of fiber molecules; their influence on the fibre properties

**UNIT II DYES**

History of dyestuffs, light, color, dyestuffs, Structure & Use wise classification of dyes

Color – Beer's law and Lambert's law, colour mixing system, colour order system, CIE color specification, Instruments for the measurement of color, Kubelka-Munk Theory, Relation between K-S & concentration of colourant, understanding Color difference, Hue, Chroma, etc. Understanding the use of Color Index Standards, dye shade cards and pantone colour coding. Commercial dyes. Introduction on Banned dyes

**UNIT III AUXILIARIES: (DYEING & PRINTING)**

Chemical composition and properties of wetting agent, softeners (anionic, cationic and non-ionic), detergents, leveling agents, carriers, bleaching agents, thickeners, binders, eco-friendly chemicals.

**UNIT IV PROCESSING**

Brief introduction to Preparatory Processes - Singeing, Desizing, Scouring, Bleaching and Mercerization.

Dyeing – Principles of Dyeing and Mechanism of dyes like – like direct, reactive, vat, azoic, sulphur, basic, acid, disperse and natural dyes.

Printing – Principles of printing, printing using dyes and pigments on - (silk, cotton, Polyester, & blends); fixation of prints using various methods, Innovative Printing methods. Introduction to Post Treatment of dyed, printed and finished fabrics. (Soaping, rinsing, washing and fixation).

## **UNIT V TEXTILES AND ENVIRONMENT**

Impacts due to processing, alternatives used in processing, ecolabels and Ecofriendly practices, smart textiles. Sanitizing dye stuff, German Ban

### **REFERENCES:**

1. Technology of Textile Processing - Shenai, V.A. (1984), Vol.- IX, Sevak Publication
2. Hand Book of Textile Fibers - Cook, J. Gordon, Merrow Publishing Co. Ltd, England
3. Manmade Fibers - Moncrief: R.W, John Wiley & Sons New York.
4. Dyeing and Chemical technology of Textile Fibers - Trotman, E.R. (1975), Charles Griffino Company Ltd, London.
5. An Introduction to Textile Finishing - Marsh, J.T. (1979), B. I. Publications.
6. Chemicals after Treatment of Textiles - Mark H., Wooding N.S. & Atlas Smeeds, (1970), John Wiley & Sons Inc., NY.
7. Handbook of fiber Science and Technology, Vol. II, Chemical Process of Fibres and Fabrics, Functional Finishes Part A - Lewin, M. and Selio, Stephen B. (1983) Marcel Deker, Inc, NY and Basel.
8. Introduction to the Chemistry of Dyestuffs-Shenai, V. A (1991):, Sevak Prakashan
9. Natural Dyes and their Application to Textiles, Gulrajani M.L. and Gupta, D. (1982), IIT Delhi.

10. Natural dyeing process of India-Mohanty, Chandramouli, Naik, (1987), Ahmedabad, Calico Museum of Textiles.
11. India Horti business on line. <http://www.agroindia.org/1HOL>
12. Technology of Finishing-Shenai, V.A. and Saraf, N.M. (1990), Vol. X.II Edition
13. Fundamental Principles of Textile Processing-Shenai.V.A (1984); Vol. IX, I Edition, Sevak Pub
14. Evaluation of Textile Chemicals-Shenai, V.A and Mehra, R.H. (1984); Vol.VIII, Sevak Pub
15. Technology of Dyeing-Shenai, V.A. (1988); Vol. VI, Sevak Pub
16. Technology of Dyeing-Shenai, V.A. (1984) Vol.I, Edition III, Sevak Pub.
17. Chemistry of Dyes & Principles of Dyes-Shenai, V.A (1987); Vol.III, Edition III, Sevak Pub
18. Textile Fibers-Shenai, V.A (1990); Vol. I, Edition III, Sevak Pub
19. Chemistry of Organic Textile Chemicals-Shenai, V.A and Saraf, N.M., Sevak Pub
20. History of Textile Design-Shenai, V.A. (1988), Sevak Pub

# **ELECTIVE COURSES**

**SEMESTER III**  
**VPTC3 E01 FASHION CHOREOGRAPHY**

**Hours per week: 3**

**Credit: 4**

**Objectives:**

1. To develop managerial and the Fashion presentation skills of the students
2. To enable students organize fashion shows

**UNIT I**

Fashion shows- history and origin, importance, types

**UNIT II**

Steps in planning a show, technical framework, Lighting and Sound

**UNIT III**

Advertising and promotional activities

**UNIT IV**

Choreography, Opening the show, Pace, Pivots and Pauses, Mapping, Dancing,

Model groups, Finale, Importance of choreography

**Related experience:**

Organize a fashion show

**REFERENCES**

1. Guide To Producing A Fashion Show, second edition, Judith C Everett, Kristen K Swanson, Fairchild Publications, Inc, New York
2. Silent Selling: Best Practices and Effective Strategies in Visual Merchandising 4th Edition Judith Bell, Kate Ternus



**SEMESTER III**  
**VPTC3 E01 FASHION COMMUNICATION**

**Hours per week: 3**

**Credit: 4**

**Objectives:**

1. To develop communication skills in fashion promotion
2. To enable students understand the importance of fashion journalism

**UNIT – I**

- I. Fashion and the communication process: What is Fashion ?

The Theories of fashion adoption need for promotion of fashion, need for the communication process, communication through different media.

- II. Written Communication:

Fashion writing, creative writing reporting features, editing and printing techniques, image management and advertising, public relations, press laws and media ethics.

**UNIT – II**

- III. Visual Communication:

Visual merchandising and display, fashion photographs, fashion shows and multimedia.

- IV. Communication in practice

Scripting shows, conducting interviews, reporting events, fashion critics, planning PR campaigns, formulating case studies, designing catalogues and brochures, layouts for stands in exhibition. Visualisation of décor and ambience, preparing short films and audiovisuals, choreography of fashion event.

**References :**

1. Farbey, A.D. : How to Produce Successful Advertising, Kogan Page India Pvt. Ltd.
2. Jethwaney, J.N. (1999) : Advertising, Phoenix Publishing House Pvt. Ltd.
3. Roundy, N. and Mair, D. (1985) : Strategies for Technical Communication, Little Brown and Company, Boston, Toronto.
4. Verne E. Edwards , WMCBrown Journalism : in a free society
5. Charles S Steinberg, Mass Media and Communication - HastingsHouse, New York

**SEMESTER III**  
**VPTC3 E01 SOCIOLOGY OF CLOTHING**

**Hours per week: 3**

**Credit: 4**

**Objectives:**

1. To understand the relationship of clothing and the society
2. To know the importance of clothing in social life

**UNIT I**

Origin of Clothing

Theories of clothing – theory of modesty, immodesty, protections, adornment, combined need theory, other theories in fashion.

Relation between clothing and other disciplines.

(a) Physical Health (b) Mental Health

Clothing and first impressions.

**UNIT II**

Relation between clothing and the wearer

(i) Personality and self concept.

(ii) Motivation in clothing choices.

Individual values, interests and attitudes related to clothing.

Behaviour and clothing choices, practices and effect and clothing on the individual.

### **UNIT III**

Clothing and Society.

Clothing and social behavior

Clothing influenced by religion and culture.

Clothes and conformity

Clothes and occupation

### **UNIT IV**

Selection of clothing for various age group

Uniforms in schools and college.

### **REFERENCES:**

1. Avis, M. Dry (1961): The Psychology of Jung, Methuen & Co., London.
2. Horn, Marilyu J. (1968): The Second Skin, Houghton Mifflin Co., USA.
3. Flugel, J.C. (1950): The psycho – analytical study of the family, The Hogarth Press & the Institute of Psycho Analysis, London.
4. Richard Wollheim (1985): Freud, Fontana Press, London.
5. Vincent Brome (1978): Jung, Granada Publishing, London, Toronto Sydney, New York.

**SEMESTER III**  
**VPTC3 C11 TEXTILES AND ENVIRONMENT**

**Hours per week: 5**

**Credit: 4**

**Objectives:**

- 1. To understand the environmental effects of the textile industry**
- 2. To develop an Ecofriendly attitude in consumerism**

**UNIT I**

Indian textile industry-introduction, economic growth, over view

**UNIT II**

Environmental impacts- production, processing, transportation, use and care, child labour

Eco factors, ethical issues

**UNIT III**

Ecofriendly practices, ecofriendly fibers (hemp,jute,ramie,bamboo.pineapple leaf,mulberry, banana, novel fibers – spider silk, bacterial cellulose, corn fibers, fortrell ecospun).organic cotton- production, significance, difference between organic and conventional cotton, market potential, limitations.

Fabric care- Ecofriendly practices

Ecoparameters-German ban(direct ,azo),sensitizing dye stuff

**UNIT IV**

Use of biotechnology :

1. Textile processing
2. Ecofriendly fibers- transgenic cotton, coloured cotton, hybrid cotton, biofabrics
3. Use of enzymes

## **UNIT V**

Eco labeling-introduction, types, aims, criteria, ecolabelling and international scenario, types of ecolabels.

## **REFERENCES**

1. Dr. David C. Innes. "What do your clothes say about you?" (1993).
2. Lurie, Alison, The language of clothes, New York: Random house, 1981
3. Blackburn, R.S (2009) "Sustainable Textiles: life cycle and environmental impact, woodhead textile series No98, Woodhead publishing Ltd.UK.
4. Bomburg, N (2010) "Sustainability in performance apparel: Meeting the demands on eco conscious market place, Woodhead publishing Ltd.UK.

# **SEMESTER IV**

## **SEMESTER IV**

### **VPTC4 P03 QUALITY ASSURANCE AND TEXTILE TESTING (PRACTICALS)**

**Hours per week-5**

**Credit 4**

#### **Objectives:**

1. To develop an understanding of methods and techniques used to analyse textile fibers, yarns and fabrics for end use performance
2. To acquire knowledge and understanding of various structural properties of textiles and relate them to end use fabric performance and product
3. To familiarize students with the different testing equipments, their underlying
4. principles and the international accepted standards, test methods and the language of measurement
5. To be able to analyze and interpret the results and predict the general textile behavior performance
6. To develop understanding of the importance of quality control in textile testing

#### **EXPERIMENTS**

1. Determination of yarn counts of the given yarn packages by Beasley's balance
2. Determination of crimp percentage,
3. Determination of twist in a yarn
4. Determination of GSM of the given sample using quadrant balance
5. Determination of ends and picks per inch of the given fabric
6. Determination of breaking load of a woven textile, material by raveled strip method on an electronic tensile strength test.
7. Determination of tear strength of fabric by Elmendorf tear tester
8. Determination of bursting strength of woven fabric using the diaphragm method
9. Determination of stiffness of fabric by cantilever test
10. Determination of wrinkle recovery
11. Determination of abrasion resistance on martindale abrasion tester
12. Assessment of fabric drape
13. Determination pilling resistance of fabric by tumble type pilling tester
14. Determination of colour fastness of textile material to rubbing



15. Determination of colour fastness to washing in launderometer
16. Determination of water repellency of fabrics by water spray test

## **REFERENCES:**

1. Principles of Textile Testing – J.E.Booth, Newness Butterworth, London
2. Textile Testing and Analysis – Billie J. Collier and Helen E. Epps, Prentice Hall, New Jersey
3. Textile Testing – John H. Skinkle, Brooklyn, New York
4. Handbook of Textile Testing and Quality Control – Groover and Hamby
5. An Introduction to Quality Control for Apparel Industry – Pradip V. Mehta, Marcel Dekker, New York
6. Textile Objective measurement Automation in Garment Manufacture – George Stylios – Ellis Horwood Ltd, England
7. Knitted Clothing Technology – Brackenbury Terry, Blackwell Science Ltd
8. Textile Testing & Quality Control Standards like – BIS, BS, ASTM, ISO, AATCC,

**SEMESTER IV**  
**VPTC4 P04 TEXTILE CHEMISTRY**  
**(PRACTICAL)**

**Hours per week-5**

**Credit 4**

**Objectives:**

1. To be acquainted with the polymers of which the textile fibers are made.
2. To familiarize with the principles of chemical processing i.e. from preparatory process to finishing of textiles
3. To understand the chemistry, production and fundamental properties of natural and synthetic dyes.

**EXPERIMENTS**

1. Qualitative analysis – Identification of fibers – cotton, polyester, viscose, polyamide, polyester, silk, wool, jute. Use of burning, microscopic, chemical tests.
2. Analysis of binary blends
3. Desizing, scouring and bleaching of grey fabric using chemical and eco-friendly agents
4. Dyeing of cotton with direct dye, vat dye, reactive dye
5. Dyeing of wool and silk with acid dye
6. Dyeing of nylon with acid/metal complex dye,
7. Use of natural dyes and mordants (Synthetic & natural) to dye cotton and silk
8. Identification of dyes, direct, reactive, azo, vat, sulphur, acid and disperse dyes on fabrics.

**REFERENCES:**

1. Technology of Textile Processing – Shenai, V.A. (1984), Vol.- IX, Sevak Publication
2. Hand Book of Textile Fibers – Cook, J. Gordon, Merrow Publishing Co. Ltd, England
3. Manmade Fibers – Moncrief: R.W, John Wiley & Sons New York.
4. Dyeing and Chemical technology of Textile Fibers – Trotman, E.R. (1975), Charles Griffino Company Ltd, London.
5. An Introduction to Textile Finishing – Marsh, J.T. (1979), B. I. Publications.
6. Chemicals after Treatment of Textiles – Mark H., Wooding N.S. & Atlas Smeeds, (1970), John Wiley & Sons Inc., NY.
7. Handbook of fiber Science and Technology, Vol. II, Chemical Process of I and Fabrics, Functional Finishes Part A – Lewin, M. and Selio, Stephen B. (1983) Marcel Deker, Inc, NY and Basel.
8. Introduction to the Chemistry of Dyestuffs-Shenai, V. A (1991):, Sevak Prakashan
9. Natural Dyes and their Application to Textiles, Gulrajani M.L. and Gupta, D. (1982), IIT Delhi.
10. Natural dyeing process of India-Mohanty, Chandramouli, Naik, (1987), Ahmedabad, Calico Museum of Textiles.
11. India Horti business on line. <http://www.agroindia.org/1HOL>
12. Technology of Finishing-Shenai, V.A. and Saraf, N.M. (1990), Vol. X.II Edition
13. Fundamental Principles of Textile Processing-Shenai.V.A (1984); Vol. IX, I Edition, Sevak Pub
14. Evaluation of Textile Chemicals-Shenai, V.A and Mehra, R.H. (1984); Vol.VIII, Sevak Pub
15. Technology of Dyeing-Shenai, V.A. (1988); Vol. VI, Sevak Pub

16. Technology of Dyeing-Shenai, V.A. (1984) Vol.I, Edition III, Sevak Pub.
17. Chemistry of Dyes & Principles of Dyes-Shenai, V.A (1987); Vol.III, Edition III, Sevak Pub
18. Textile Fibers-Shenai, V.A (1990); Vol. I, Edition III, Sevak Pub
19. Chemistry of Organic Textile Chemicals-Shenai, V.A and Saraf, N.M., Sevak Pub
20. History of Textile Design-Shenai, V.A. (1988), Sevak Pub

# **ELECTIVE COURSES**

**SEMESTER IV**  
**VPTC4 E02 HOME TEXTILES**

**Hours per week: 5**

**Credit: 4**

**Objectives:**

1. To acquaint the students to various home furnishings
2. To help them know the criteria for selection of home textiles
3. To be aware of the latest trends in home textiles

**UNIT I:**

Introduction to Home Textiles

- Definition
- Types of Home textiles (Woven and non-wovens)
- Factors influencing selection of Home Textiles
- Recent trends in Home Textiles

**UNIT II:**

Floor and wall coverings

- Definition of floor covering
- Types of floor covering - hard, soft, and resilient floor coverings
- Uses and care of floor covering
- Definition of wall covering
- Uses and care of wall coverings

**UNIT III:**

Door and window treatments

- Definition and parts of Door and Windows
- Definition - Curtains and Draperies
- Materials used for Curtains and Draperies
- Types of curtains - Draw, tailored, pleated, cafe curtains, three tire curtains
- Type of draperies - swags
- Accessories - rods hook, rails, racks, curtain tape pins

## **UNIT IV:**

Soft furnishing. For living and Bedroom

- Definition for Living and Bedroom linens
- Types of living and bedroom linens
- Sofa, sofa covers
- Wall hangings
- Cushion/cushion covers
- Upholsteries
- Bolster and bolster covers
- Bed sheets, covers
- Blankets, blanket covers
- Comfort and comfort covers
- Bed spreads
- Mattress and mattress covers
- Pillow and pillow covers
- Pads
- Uses and care advantages and disadvantages

## **UNIT V:**

Soft furnishing. for Kitchen, Dining and Bathroom

- Definition
- Types of kitchen linens
- Dish cloth, hand towels
- Definition for dinning
- Bathroom linens - types
- Factors affecting the selection of table and bathroom linens
- Use and care

## **REFERENCES:**

1. Cheryl Mendelson, Home Comforts the Art and Science Keeping house Published by Scriber, New York. 2005.
2. Hanlyn octopus, Cushions and Pillows- Professional Skills made easy, Octopus Publishing group – New York, 2001.

3. Magi Mc McCormick Gordon, the Ultimate Sewing Book 200 sewing ideas for you & your home. Collins & Brown, London, 2002.
4. Anne van Wagner Childs Leisure Arts- Inc., Sew- no- more Home Décor ,Arkansas, U.S.A,1993.
5. Mary Mulasi, Garments with style, Chiton Book Company,Pennsylvania,1995.



## **SEMESTER IV**

### **VPTC4 E02COMPUTER APPLICATION IN FASHION DESIGNING**

**Hours per week-5**

**Credit 4**

#### **Objectives:**

1. To enable students to handle tools of Adobe Illustrator & Photoshop to create fashion and design Illustration.

#### **Unit I**

##### **Adobe Illustrator:**

Introduction to Vector Graphic and Bitmap Graphic.

Opening, closing and saving a file.

Tool Box

Grids and Guideline

Ruler Setting

Paths – With all options

Importing and Exporting

Printing a document

Filters

Layers

All Menus

#### **Unit-II**

##### **Adobe Photoshop**

Introduction: Vector Graphic and Bitmap Graphic.

Opening, closing and saving a file.

Tool Box

Importing and Exporting

Printing a document

Image size and Resolution

Colour Palettes

### **UNIT III:**

#### **Computer aided garment designing**

Tools and Techniques

Sketching different types of garments.

Pattern creation of Children's, women's and men's garments.

Pattern grading for Children's, women's and men's garments.

Marker efficiency

Lay Planning

Fashion Studio – Utility and tools.

Children's, women's and men's garments.

### **UNIT IV**

#### **Introduction to Color Modes**

Working with different color models and modes, Using

custom colors, Picking colors, Analyzing and editing colors, Looking at gamut issues,

Creating duotones, Setting color balance, Setting hue and saturation, Adjusting

brightness and contrast, Working with histograms, Retouching images, Color ranges

and replace color options, Cropping images, Understanding Process and spot colors,

Choosing pantone colors, Applying fill and stroke colors Mastering Computer Graphics

Skill using Corel Draw,

## **UNIT V:**

### **Introduction to CorelDraw.**

Drawing the details of the following in Corel Draw and Applying various texture and effects:

### **REFERENCES:**

1. Adobe Photoshop, 12.0
2. Gruman, Galen, Adobe in Design Cs2 Bible.
3. Adobe Illustrator, 12.0
4. Lazer, Susan.H., Adobe Illustrator For Fashion Design
5. Golding, Mordy, Adobe Creative Suite 2

### **Related Experience:**

#### **Project 1:**

**Drawing the below given Fashion Details by applying various textures and effects.**

#### **Fashion Details:**

**Collars:** Turtle, Tuxedo, Cape, Convertible, Shirt, Sailors, Chelsea, Coat, Cowl Neckline.

**Sleeves:** Raglan, Ruffle, Dolman, Virago, lantern, Leg-O-Mutton, Bell.

**Bodice:** Basic, Halter Style, Off shoulder, Double Breasted

**Skirts:** Basic, A-Line, Flared, Fishtail, Petal, Peplum, Puffball, Divided.

**Trousers:** Basic, Dungarees, Hipster, Capri, Bell Bottom, Jodhpurs, Fisherman Pants, Cargo.

**Pockets:** Patch, Inseam, Welt, Bound and Pouch.

**Accessories:** Bags, Belts, Caps, Bows, Jewellery, Scarves.

**Project 2:**

**Figure Drawing:** Male, Female and Kids.

**Mood Board and story Board** based on Theme.

## **SEMESTER IV**

### **VPTC4 E02 KNIT WEAR TECHNOLOGY**

**Hours per week: 5**

**Credit :4**

#### **Objective:**

1. To make the students to understand the basics of Knitting Technology.

#### **UNIT I**

Weft Knitting Machines and Industry – Knitting Terms and Functional Elements – Selection Criteria in Weft Knitting – Principal Stitches in Weft Knitting – Basic Structures and Notations in Weft Knitting – Basic Machines and Fabrics

#### **UNIT II**

Double Knit Structures – Patterning in Weft Knitting – Needle Selection Techniques in Circular Knitting Machines – Weft Knit Fabric Geometry

#### **UNIT III**

Knitting Dynamics – Quality Control in Circular Weft Knitting – Circular Knitting Developments – Calculations in Weft Knitting

#### **UNIT IV**

Finishing of Knitted Fabrics – Wrap Knitting – Functional Elements of Wrap Knitting – Patterning in Wrap Knitting – Tricot and Raschel Machines – Principal Stitches of Wrap Knitting

#### **UNIT V**

Structures of Wrap Knitting – Yarn Preparation, Yarn Feed and Fabric Take-up – Wrap Knit

#### **UNIT VI**

Specialty Wrap Knits – Warp Knitted Technical Textiles – Flat Bed Knitting – Hosiery  
Socks Knitting

**REFERENCES:**

1. N. Anbumani, “Knitting Fundamentals, Machines, Structures and Developments”,  
1st Edition, New Age International Publishers, 2007.

**SEMESTER IV**  
**VPTC4 PR PROJECT**

**Hours per week: 10**

**Credit: 4**

1. Development of research Programme
2. Collection of Review
3. Conduct Pilot Study in the field
4. Conduct of work in the lab/ Industry/ community
5. Analysis of Data
6. Writing for the thesis and submission

<b>Sl.No</b>	<b>Criteria</b>	<b>Weightage (Total 36)</b>
1	Choice of the topic	1
2	Introduction and Objectives	2
3	Review of literature	5
4	Methodology	8
5	Results and Discussion	8
6	Summary and conclusion	4
7	Bibliography	4
8	Abstract	2
9	Over all	2

**SEMESTER IV**  
**VPTC4 V01 VIVA VOCE**

**Credit:4**

**Based on:**

1. Dissertation work
2. Internship
3. Course programme



# MODEL QUESTION PAPER

# **FIRST SEMESTER M.Sc. DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

## **VPTC1 C01- HISTORIC COSTUMES**

### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries a weightage 1.

1. What is cotteshardie?
2. What is Dorian Chiton?
3. What are the three symbols used in Egyptian costume?
4. What all are the ornaments worn by both men and women in Egypt?
5. State the ornaments worn by Asiatic people?
6. What is pantaloons?
7. What is tunic?
8. In which period was the tightening of drapery introduced.
9. The most elegant costume consisted of 2 tunics of different colors. Which are those two tunics?
10. What is chiton?

(10x1=10 weightage)

#### **PART B**

Answer any **six** questions, each within **one page**. Each question carries weightage 3

1. Explain in short the costume and accessories worn by the men and women of Egypt.
2. Describe the garment structure in England.
3. Write a description on past to present men and women garment features and accessories.

4. Write a short note on evolution of costumes.
5. Explain the importance and needs of clothing.
6. Describe about Greek costumes.
7. Write a short note on garment features and uses of colors in Rome.
8. Explain in short about French costume.

(6x3=18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

1. Explain in detail about Egyptian costume.
2. Describe in detail about Italian costume and foot wear.
3. Explain in detail about needs and importance of clothing and evolution of costumes.
4. Explain the garment features of men and women including head accessory and foot wear of German.

(2x4=8 weightage)

# **FIRST SEMESTER M.Sc DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

## **VPTC1 C02- FASHION MARKETING**

### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1.

1. What is Retailing?
2. List the functions performed by a retailer.
3. What all are the type of retail chanel?
4. What is store chanel retailing?
5. Define Marketing.
6. What is Post Purchase Evaluation?
7. What is Retail Pricing?
8. Define Pricing Strategies.
9. What is Problem Recognition?
10. What is the equation to calculate the retail pricing?

(10x1=10 weightage)

#### **PART B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

1. Briefly describe about the functions performed by retailer.
2. Brief the type of retail chanel
3. Explain the buying process.
4. Explain the retail location.
5. What is Demand based pricing?
6. Describe about good costumers to best customers.
7. Explain in short about New Product Pricing.
8. What is competitor pricing?

(6x3=18 weightage)

**Part C**

Answer any two questions. Each question carries a weightage of 4

1. Explain the types of pricing Strategies.
2. Explain in detail about pricing techniques used for increasing the sale.
3. Define Markdowns. Explain the reason for markdowns.
4. Explain the consideration in setting retail prices

(2x4=8 weightage)

# **FIRST SEMESTER M.Sc. DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

## **VPTC1 C03-COSTUME DESIGN AND ILLUSTRATION**

### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries a weightage 1.

1. Define the term Style
2. What are the factors affecting fashion?
3. List the adoption theories of fashion
4. List four Indian and International Designer.
5. Define the term Change
6. What is introduction to a style?
7. Give a note on Pear Body type
8. Define the term Acceptance.
9. Name the features of fashion.
10. What is heads theory?

(10x1= 10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

1. Explain the different stages of fashion cycle.
2. Briefly explain any two factors affecting fashion.
3. Briefly write about any Indian Fashion Designer.
4. Write briefly about any two mens ensembles.
5. Explain in detail about the dressing tips for the following:
  - a. Hourglass type body shape
  - b. Inverted triangle type body shape
6. Explain any two Economic factors that affect fashion.

7. Explain the features of fashion.

8. Write short note on:

a. Trickle up

b. style

c. acceptance

d. change

(6x3 =18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

1. Write an essay on the factors affecting fashion.

2. Explain the adoption theories of fashion.

3. Describe the following

a. fashion guide lines for short and heavy men    b. fashion guide line for tall and thin men

4. Explain the following:

a. Christian Dior

b. Coco Chanel

(2x4=8 weightage)

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

**VPTC1 C04- INTRODUCTION TO FASHION DESIGN CONCEPT**

**MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

**PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1.

Describe about the following:

1. Texture
2. Fashion
3. Hue
4. Apparel
5. Bandanna Print
6. Value
7. Moderate silhouette and extreme silhouette
8. Classics and fad
9. Calico
10. Proportion

(10x1=10 weightage)

**PART B**

Answer any six questions, each within one page. Each question carries weightage

3

11. What are the four seasons of fashion?
12. Describe about the role of Fashion Designer in the Fashion Industry.
13. Explain elements used in creating a design.
14. What is long term fashion for casting?
15. Write a short note on any one Indian Fashion Designer
16. What is costing?



17. Write a description about International fashion Centers.
18. Write short note about any one International designer.

(6x3=18 weightage)

### **PART C**

Answer any two question. Each question carries weightage 4

19. Describe fashion cycle with a neat diagram.
20. What are the Principles of design?
21. What is Fashion Forecasting?
22. Explain in detail about sampling process in fashion industry.

(2x4=8 weightage)

## **FIRST SEMESTER M.Sc DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

### **VPTC1 C05-RESEARCH METHODS AND STATISTICS**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Maximum: 36 Weightage

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1.

Describe about the following:

1. Research
2. Criteria for a good average.
3. Secondary data
4. Objectives of research.
5. Pilot study.
6. Types of evaluation.
7. Bibliography.
8. Case study
9. Normal distribution.
10. Bar diagrams.

(10x1= 10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

11. Find the mean and standard deviation for the following data.  
Marks 0-20 , 20-40, 40-60, 60-80, 80-100  
No of students: 5, 17, 30, 12, 6
12. What are the components of a research report?

13. Explain types of variables.
14. What are the characteristics of a good questionnaire?
15. Characteristics of good research problem.
16. How can you select a systematic sample?
17. Explain scatter diagram method.
18. What is Ex post facto research?

(6x3 =18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

- 19 Define research. Explain the types of research.
- 20 Explain sampling and merits and limitation of sampling.
- 21 Calculate co-efficient of correlation between purchase and sales from the figures given below  
Purchase (in 000 Rs) 2345678  
Sale ( in 000 Rs) 45612954
- 22 Explain the principles and basic components of research report writing.

(2x4= 8 weightage)

## **SECOND SEMESTER M.Sc DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

### **VPTC2 C06 QUALITY ASSURANCE AND TEXTILE TESTING**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries 1 weightage .

1. Define linear density.
2. What is meant by yarn crimp?
3. What is CSP?
4. Explain breaking strength and tensile strength.
5. List the types of abrasion.
6. Differentiate between waterproof and showerproof.
7. What are the causes of pilling?
8. Explain snagging.
9. What is specific stress?
10. Explain the ecomark label of India?

(10x1= 10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries 3 weightage

1. Discuss the objectives and the importance of maintaining standards in textile testing.
2. Explain any three internal bodies maintaining quality standards of textile products.
3. How is fibre strength measured?
4. Write a note on fabric wicking.

5. Explain the methods of measuring fabric drape.
6. Discuss the tongue tear test.
7. Describe the fabric characteristics affecting tensile strength.
8. Discuss the remedies for reducing pilling of fabrics.

(6x3 =18 weightage)

### **Part C**

Answer any two questions. Each question carries 4 weightage

9. Enumerate the methods of determining breaking strength of fabrics .
10. Explain the working of Shirley air permeability tester.
11. Describe the methods of determining fabric stiffness.
12. Explain the methods of measuring crease recovery.

(2x4=8 weightage)

**SECOND SEMESTER M.S.c DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

**VPTC2P01 FASHION DRAPING**

**MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

1. Drape the dress form according to the pattern given.

## **SECOND SEMESTER M.Sc. DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

### **VPTC2 C07- VISUAL RETAILING AND ENTREPRENEURSHIP MANAGEMENT**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1.

1. Define Visual Merchandising.
2. What is a line?
3. What type of response do curved lines tend to evoke?
4. Define proportion.
5. Name the items used in store exterior.
6. How is Awnings important for the exterior of the store?
7. Define Angled front.
8. What is masking?
9. Define elevated windows.
10. What is a focal point?

(10x1=10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

1. Describe in short the type of mannequins.
2. Describe the uses of each of the following floor fixtures:
  - a. round rack
  - b. T-stand

- c. c quad rack
- d. d. gondola
- 3. List and explain the criteria a visual merchandiser should use for selecting fixtures.
- 4. Describe in short about the store exterior.
- 5. Explain the difference between Awnings and Marquees.
- 6. What is a Marquee? How can it be used in visual merchandising?
- 7. Name the types of display settings and explain each.
- 8. Describe the suggestions for using light effectively.

(6x3=18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

- 1. Explain in detail about the store interior.
- 2. What type of light sources would you select for a shop? Why?
- 3. Explain the store front design.
- 4. Explain in detail the agencies for development of entrepreneurship.

(2x4=8 weightage)



**SECOND SEMESTER M.Sc DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

**VPTC2 P02 ADVANCED PATTERN MAKING AND CONSTRUCTION  
TECHNIQUES**

**MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

1. Draft and adapt the given pattern
2. Construct and finish the garment

### **THIRD SEMESTER M.Sc. DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

### **VPTC3 C08 FABRIC CONSRUCTION AND ANALYSIS**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries 1 weightage

11. List the types of handlooms.
12. What is a lifting plan?
13. What is the principle of the rapier loom.
14. Explain the basic operations of a loom.
15. List the derivatives of a plain weave.
16. Differentiate between satin and sateen weaves.
17. Draw the design, lifting plan of broken twill.
18. Explain damask fabrics.
19. Define 3D weaving.
20. How is double cloth formed?

(10x1= 10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries 3 weightage

6. Explain the ornamentation of plain weave.
7. Explain the mechanism of weaving jacquard and dobby.
8. Briefly explain Pile weaves-Warp pile and Weft pile .
9. Write a note on pile weaves.
10. Explain welts and pique fabrics.
11. Discuss the derivatives of plain weave.
12. Describe any three complex weaves.

13. Differentiate between lappet and swivel weaves.

(6x3 =18 weightage)

### **Part C**

Answer any two questions. Each question carries 4 weightage

5. Enumerate the working of the various shuttleless looms.
6. Explain twill weave and its derivatives .
7. Describe satin and sateen weaves with designs.
8. Explain the various towelling weaves.

(2x4=8 weightage)

### **THIRD SEMESTER M.S.c DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

#### **VPTC3 C09- TECHNICAL TEXTILES**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1

1. What is technical textiles?
2. What is Globalization?
3. Describe melt blown.
4. Write a short note on Web lay flash spinning
5. What are the specialties of technical Textiles?
6. Write a short note on Nano fibres
7. What is conventional and new developed fibre?
8. What are the basic methods of bonding?
9. What is batt production?
10. What is medical textiles?

(10x1=10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

11. Describe about technical fibres and yarns
12. What are the process of hydroentanglement
13. Describe about Geo textiles
14. Describe about and process of technical textile
15. What is heat setting and chemical process.
16. Explain transport textile

17. Write short note about transport textiles
18. Describe about oven and nonwoven fabric structure

(6x3=18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

19. What are the applications of technical textiles
20. Describe automotive textiles
21. Explain finishing of technical textiles
22. Explain Smart textiles.

(2x4=8 weightage)

### **THIRD SEMESTER M.Sc. DGREE EXAMINATION**

Home Science (Textiles and Costume Science)

#### **VPTC3 C10- TEXTILE CHEMISTRY**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1.

1. What is Polymers?
2. Properties of wetting agent.
3. What is Desizing?
4. What is Due processing?
5. What is color mixing system?
6. What is Hue?
7. What is the importance of Textile Chemistry?
8. What is due shade cards?
9. Define mercerization.
10. What is dye pigment?

(10x1=10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

1. What is the definition of polymer?
2. What are the needs and importance of Textile Chemistry?
3. Explain the principles of printing.
4. Explain the structure and use in classification of dyes.
5. What is chemical composition and properties of wetting agent?
6. Describe Eco- friendly chemicals.

7. Explain fixation of print and various methods used.
8. Write a description about color mixing systems.

(6x3=18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

1. Explain preparatory process.
2. What are the principles of dyeing and mechanism of dyes?
3. Describe the importance of Eco- friendly textiles.
4. What is the preparatory process in applying the fabric.

(2x4=8 weightage)

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

**VPTC3 E01- FASHION CHOREOGRAPHY**

**MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

**PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1.

1. What is finale
2. What is fashion show
3. What is model.
4. Give a note on origin of fashion show
5. Describe advertizing
6. What are the types of fashion show
7. What is mapping
8. What is pace
9. What is fashion choreography
10. What is model group

(10x1=10 weightage)

**Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

11. Describe the importance of fashion show
12. What are the difference steps in planning a fashion show
13. What is opening the show
14. Describe the importance of fashion choreography
15. Write a description about international fashion centre.
16. Write short note on advertizing



17. Describe about dancing

18. What are the difference between pivots and pouses

(6x3=18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

19. Describe about the history of fashion show

20. What are the difference steps in planning a fashion show?

21. Describe about technical framework of fashion show

22. What are promotional activities using fashion show?

(2x4=8 weightage)

### **THIRD SEMESTER M.Sc DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

#### **VPTC3 E01- FASHION COMMUNICATION**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1

1. What is fashion?
2. What are the different media used in fashion communication?
3. What is Media ethics?
4. What are the difference between fashion photographs and fashion shows?
5. What is scripting shows?
6. What are the features of reporting?
7. What are the qualities of audio visuals?
8. What is case study?
9. Define fashion communication.
10. What is display?

(10x1= 10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

11. Describe Visual Merchandising.
12. Describe the role of visual merchandiser in fashion industry.
13. Write a short note on editing and printing techniques.
14. Explain fashion communication.
15. Describe on fashion shows and multi media.
16. Explain on interviews conducted.

17. Describe on fashion photographs.
18. What are the needs for promotion of fashion?

(6x3 =18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

19. Explain in detail on fashion choreography and fashion events.
20. Explain about visualization of décor and ambience.
21. Explain in detail on short films and audio visuals
22. Describe on theories of fashion adaption and need for promotion.

(2x4=8 weightage)

**THIRD SEMESTER M.Sc DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

**VPTC3 E01- SOCIOLOGY OF CLOTHING**

**MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

**PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1.

1. What is Modesty?
2. What is color mixing?
3. Define individual values.
4. How can you make the first impression the best impression?
5. What are the basic functions of clothing?
6. What is adornment?
7. Define apparel.
8. What is fashion?
9. Define immodesty.
10. What is cloths and conformity?

(10x1= 10 weightage)

**Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

11. Explain the theories of fashion.
12. Explain the relation of individual values, interest and attitudes of clothing.
13. Explain the role of society in clothing.
14. Write a note on clothes and occupation.
15. Explain clothing and social behavior.

16. How can you motivate a person in choosing a cloth.
17. What is cloths and conformity?
18. Explain color and impact of color in clothes.

(6x3=18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

19. Explain the theories of clothing.
20. Explain the relation between clothing and wearer.
21. Impact of color on cloths.
22. Clothing in religion and culture. Explain

(2x4=8 weightage)

**THIRD SEMESTER M.Sc DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

**VPTC3 C11- TEXTILES AND ENVIRONMENT**

**MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

**PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1.

1. What is eco- labeling?
2. What is corn fiber?
3. Define green shopping.
4. List any 2 eco- friendly fibers.
5. What are the basic types of eco- label?
6. What is spider silk?
7. What is cellulosic fibers?
8. Explain the eco,mark scheme?
9. Name two brands which have eco-friendly labels.
10. Name four novel fibers.

(10x1= 10 weightage)

**Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

11. Explain eco- friendly practices for fabric care.
12. Explain any two eco- friendly fibers.
13. Write a note on green shopping.
14. Explain the role of uses of enzymes in bio technology.

15. Explain the organic and conventional cotton.
16. Explain types of eco- labeling.
17. Write a note on banana fibers.
18. Write a note on hybrid cotton.

(6x3 =18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

19. Explain the need of eco- friendly fabrics in Indian Textile Industry.
20. Explain German Ban.
21. Explain environmental impacts of eco- friendly fibers.
22. Use of bio technology in textile industry.

(2x4=8 weightage)

**FOURTH SEMESTER M.Sc. DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

**VPTC4 P03 QUALITY ASSURANCE AND TEXTILE TESTING**

**MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

1. Define the following- bursting strength, breaking load and flexural rigidity.
2. Carry out the given experiment and write down the aim, apparatus, principle and observations along with the calculations if any.



## **FOURTH SEMESTER M.Sc DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

### **VPTC4 P04 TEXTILE CHEMISTRY**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

1. Identify the fibres in warp and weft in the given blend sample
2. Identify the dye in the sample given
3. Dye the given sample of cotton fabric with direct dye.

## **FOURTH SEMISTER M.S.c DGREE EXAMINATION**

Home Science (Textiles and Costume Science)

### **VPTC4 E02-HOME TEXTILES**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1.

1. Define the term Home Textiles.
2. What are the factors influencing selection of Home Textiles?
3. Name the materials used for curtains and draperies.
4. Define rails.
5. List the types of Kitchen Lines.
6. Define dining.
7. What is wal hanging?
8. What all the types of Home textiles?
9. Name the recent trends in Home Textiles.
10. Define dish cloth and hand towel.

(10x1= 10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

11. Describe Home Textiles.
12. What is floor covering and explain in short about the types.
13. Brief out the uses and care of wall hangings.
14. Describe the parts of door and windows.

15. Describe the factors affecting the selection of table and bathroom lines.
16. Explain the types of bathroom lines.
17. Describe on the materials used for curtains and draperies.
18. Briefly explain on the accessories used for door and windows

(6x3 =18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

19. Define Home Textiles and explain the factors influencing selection of Home Textiles.
20. Explain in detail on the uses and care advantages and disadvantages.
21. Explain the factors affecting the selection of table and bathroom lines.
22. Explain soft furnishing for kitchen.

(2x4=8 weightage)

## **FOURTH SEMESTER M.Sc. DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

### **VPTC4 E02- COMPUTER APPLICATION IN FASHION DESIGNING**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1.

Describe the following:

1. Tool box
2. Lay planning
3. Fashion studio
4. Paths
5. Grids and Grid line
6. Corel draw
7. Color paletts
8. Filters
9. Layers
10. Windows

(10x1= 10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

11. Write a short note on Fashion studio
12. Describe on marker efficiency on garment designing.

13. Describe pattern grading for children.
14. What is vector graphic and bitmap graphic?
15. Illustrate a garment and give a description on that.
16. Explain Importing and exporting.
17. Write a short note on printing documents.
18. Describe lay planning.

(6x3 =18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

19. Introduction to color modes. Explain.
20. Explain tools and techniques of computer aided garment designing.
21. Illustrate a formal wear and give a description on that.
22. Explain drawing details followed in corel draw.

(2x4=8 weightage)

## **FOURTH SEMESTER M.Sc DEGREE EXAMINATION**

Home Science (Textiles and Costume Science)

### **VPTC4 E02- KNIT WEAR TECHNOLOGY**

#### **MODEL QUESTION PAPER**

Time: Three Hours

Max Weightage: 36

#### **PART A**

Answer **all** ten questions, each in one or two sentence. Each question carries weightage 1

1. Define Knitting.
2. List the principal stitches in weft knitting
3. Name the basic machines used in knitting.
4. What all are the finishing of knitted fabrics.
5. What is the structure of warp knitting?
6. Define flat bed knitting.
7. Define warp and weft knitting
8. What is Hosiery Socks Knitting?
9. How to select the needle in circular knitting machines?
10. What is double knit?

(10x1= 10 weightage)

#### **Part B**

Answer any **six** questions, each within **one page**.

Each question carries weightage 3

11. Briefly explain on knitting
12. Briefly explain on circular knitting machine.

13. Describe warp and weft knitting
14. Briefly explain on the finishes of knitted fabric.
15. Tricot and Rachel machines. Briefly explain.
16. Briefly explain the principals of stitches of warp knitting.
17. Briefly explain on flat bed knitting and Hosiery Socks knitting.
18. Describe the patterning in Warp Knitting.

(6x3 =18 weightage)

### **Part C**

Answer any two questions. Each question carries weightage 4

19. Explain weft knitting under the following:
  - a) selection criteria in weft knitting
  - b) Principal stitches in weft knitting
  - c) basic structures.
20. Explain Weft Knitting Fabric Geometry
21. Explain the finishing of knitted fabric.
22. Explain the structure of warp knitting

(2x4=8 weightage)