

**JAMAL MOHAMED COLLEGE (Autonomous), Tiruchirappalli-620 020**  
**PG Programme –Course Structure under CBCS**

(For the candidate admitted from the academic year 2017-2018 onwards)

SEM	Course Code	Course	Course Title	Ins.Hrs / Week	Credit	Marks		Total	
						CIA	ESE		
	17PFT1C1	Core– I	Advanced Textile Science	6	5	25	75	100	
	17PFT1C2	Core – II	Advanced Knitting	6	5	25	75	100	
	17PFT1C3	Core– III	Advanced Pattern Techniques	6	4	25	75	100	
	17PFT1C4P	Core– IV	Computer Aided Fashion Designing – Practical - I	6	4	20	80	100	
	17PFT1CE1	Elective– I		6	4	25	75	100	
		<b>TOTAL</b>			<b>30</b>	<b>22</b>			<b>500</b>
	17PFT2C5	Core– V	Quality Standards and Specifications	6	5	25	75	100	
	17PFT2C6	Core– VI	Export Documentation	6	5	25	75	100	
	17PFT2C7P	Core– VII	Computer Aided Fashion Designing – Practical - II	6	4	20	80	100	
	17PFT2C8	Core– VIII	Fabric Care	6	4	25	75	100	
	17PFT2CE2	Elective– II		6	4	25	75	100	
		<b>TOTAL</b>			<b>30</b>	<b>22</b>			<b>500</b>
	17PFT3C9	Core– IX	Technical Textile	6	5	25	75	100	
	17PFT3C10	Core– X	Textile Management	6	5	25	75	100	
	17PFT3C11P	Core– XI	Fashion Draping and Construction - Practical	6	4	20	80	100	
	17PFT3C12P	Core– XII	Home Textiles – Practical	6	4	20	80	100	
	17PFT3CE3	Elective– III		6	4	25	75	100	
	17PFT3EC1	Extra Credit Course - I	Fashion Retailing	-	5*	-	100	100*	
		<b>TOTAL</b>			<b>30</b>	<b>22</b>			<b>500</b>
	17PFT4C13P	Core– XIII	Fashion Portfolio Presentation – Practical	6	5	20	80	100	
	17PFT4C14	Core– XIV	Entrepreneurial Development	6	5	25	75	100	
	17PFT4C15	Core– XV	Textile Economics	6	5	25	75	100	
	17PFT4PW	Project	Project	12	9	-	200	200	
	17PFT4EC2	Extra Credit Course - II	World Costumes	-	5*	-	100	100*	
		<b>TOTAL</b>			<b>30</b>	<b>24</b>			<b>500</b>
<b>GRAND TOTAL</b>						<b>90</b>			<b>2000</b>

**\*Not considered for grand total and CGPA**

**# Core Based Electives:**

SEMESTER	CORE BASED ELECTIVE	
I	Textile Dyeing and Finishing	Computer Application in Fashion Designing
II	Research Methods and Statistics	Apparel Marketing
III	Home Science	Home Textiles

**SEMESTER I: CORE I**

**ADVANCED TEXTILE SCIENCE**

<b>Subject Code</b> :	<b>17PFT1C1</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>5</b>	<b>External Marks</b> :	<b>75</b>

**Objectives:**

- To gain the knowledge about recent fibers and its manufacturing process.
- To ensure the knowledge nanotechnology in textiles.

**UNIT-I: FIBER INTRODUCTION** **18 Hrs**

Fibers introduction, classification, merits and demerits of natural fibers and man made fibers. Production, Morphological structure, properties and uses –Cotton, Wool, Silk. Flax and Hemp- general properties and uses.

**UNIT-II: REGENERATED CELLULOSE AND FIBERS** **18 Hrs**

Regenerated Cellulose fibers, Rayon, Modal, Polynosic, Cellulose acetate, Triacetate, Lyocell, Tencel. Production and Properties, # General properties and uses #.

**UNIT-III: SYNTHETIC FIBERS** **18 Hrs**

Synthetic Fibers – High Tenacity Nylon, High tenacity polyester, poly – acrylo – nitril fibers - Physical structure, physical and chemical properties and uses . Electrometric fibers # (Spandex and Lycra) – fiber, properties and uses #. Texturisation- types (simplex and complex yarns)and uses.

**UNIT-IV: YARN MANUFACTURING** **18 Hrs**

Spinning – Definition, types of spinning – dry, wet and melt spinning. Spinning Process, Open and spun and TFO, comparison between ring spun and open end spun yarns. Twist spinning, (Self Twist Spinning), # False twist spinning (Air Jet and Friction Spinning) Compact spinning and uses#.

**UNIT-V: NANOTECHNOLOGY APPLICATIONS IN TEXTILES** **18Hrs**

Introduction – # Growth of Nanotechnology #, Nano Fiber and its Types, Finishes using Nanotech – Self-Cleaning Textiles, Anti-Microbial Finish, UV Protective Finish. Recent Trends – Nano Encapsulation Technology, Nano Scale Silver, Nano Threads.

#.....# **Self Study Portion**

## **TEXT BOOKS:**

**T.B-1** Corbman.B.P, Textile Fiber to Fabric, MCGRAW, HILL International Edition, Sixth Edition, 2009.

**T.B-2** Advanced Textile Science - Study Material prepared by the Department.

**UNIT- I** Chapter I **T.B-1**

**UNIT-II** Chapter II **T.B-1**

**UNIT-III** Chapter III **T.B-1**

**UNIT-IV** Chapter IV **T.B-1**

**UNIT V** Chapter V **T.B-2**

## **Books for References:**

- 1.Castelino.I, "Fashion Kaledioscope", Rup and Co., 1994.
- 2.Wiley. J, "Theory of Fashion Design", Johnwiley and Sons, Inc, New York, 1990.
- 3.Stecker.P, "The Fashion Design Manual", Macmillan, Australia, 1997.
- 4.Sharon Lee Tate, "Inside Fashion Design", Harper and Row Publication, New York, 1998.
5. A.J.Hall. "The Standard Hand Book Of Textiles" wood head publishing 8<sup>th</sup> edition 2004.
6. S.P.MISHRA," A Text Book Of Fibre Science& Technology", New Age International Ltd.

## SEMESTER I: CORE II

### ADVANCED KNITTING

<b>Subject Code</b> :	<b>17PFT1C2</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>5</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To study about elements of knitting and principles of knitting technology.
- To know the characteristics of knitted goods and its applications in industries.
- To gain knowledge on computerized knitting machine.

#### UNIT-I: INTRODUCTION

18Hrs

Knitting – Definition, #Classification# Evolution and History of Knitting – Hand and Machines.

#### UNIT-II: KNITTING TERMS

18Hrs

General terms and principles of knitting technology; machine knitting, machine description, elements of Knitted loop structure. Two methods of yarn feeding, # methods of forming yarn into the needle loops #.

#### UNIT-III: WEFT KNITTING

18Hrs

Weft Knitting – Classifications – #fabric characteristics# and derivatives of single jersey, rib, interlock and purl fabrics. Knitting action for plain and rib machines.

#### UNIT-IV: Warp Knitting

18Hrs

Warp Knitting – classification, comparison of warp and weft knitting # lapping variations # machine description and knitting cycle of Tricot and Raschel machine.

#### UNIT-V: FLAT KNITTING

18Hrs

Types and Classification – knitting elements – yarn path in flat knitting machine- knitting cycle. Flat knit fabrics. Development of Socks knitting # socks shaping#. Yarn passage and mechanism of socks knitting

#.....# **Self Study Portion**

#### TEXT BOOKS:

**T.B-1** Spencer.D.J, Knitting Technology, Pergeman Press UK.

**T.B-2** Ajgaonkar. D.B, Knitting Technology.

**Books for References:**

1. Terry Brackenbury, Knitted Clothing Technology, Blackwell Science Publications.
2. Samuel Raz, Flat Knitting Technology, Germany.
3. Smirfitt, An Introduction to Weft Knitting, Mellow Publications.
4. Cegielka L, The Knitting Industry: Present needs, Future Requirements, Vol 19, No.1, The Textile Institute 1988.
5. Dr. Anbumani (PSG) Knitting Technology, Coimbatore.

## SEMESTER I: CORE III

### ADVANCED PATTERN TECHNIQUES

<b>Subject Code</b> :	<b>17PFT1C3</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To study the methods of pattern making and its alternation.
- To gain knowledge in drafting, draping and flat pattern alteration.
- To learn the techniques of good fit and layout.

#### UNIT-I: GRADING 18 Hrs

Grading- definition, sizes, principles, types, grading points, importance of manual and computerized grading and software's used for grading

#### UNIT-II: FITTING AND PATTERN ALTERATION TECHNIQUES 18 Hrs

Fitting- principles of fitting, #standards for a good fit#, definition ,merits and demerits for e-fitting, body scanner, 3D simulators. pattern alteration techniques- definition ,#merits and demerits for pivot#, slash& seam method- (length, width, front, back, sleeve)

#### UNIT- III: DRAPING 18 Hrs

Draping-tools and equipments used, principles and fitting methods, draping terminology- apex, balance, plumb line, tureing, blocking, blending, princess line, clipping and marking. draping techniques- dresses-bias, princess line, neckline- cowl, collar-mandarin, peter pan, yokes-shoulder, midriff, hip line.

#### UNIT-IV: DART MANIPULATION TECHNIQUE 18 Hrs

Dart manipulation technique- single dart, double dart, multiple dart series, darts away from bust point, darts in the form of gathers, stylized darts,

#### UNIT-V: LAYOUT 18 Hrs

Layout-importance, principles, types of layout,# importance of fabric estimation#, advantages , methods of estimating material requirement for garment- easy method and formula methods of estimation.

#.....# **Self-Study Portion**

**TEXT BOOK :**

**Study Material Prepared By Department.**

<b>Unit I</b>	Chapter I & II	
<b>Unit II</b>	Chapter I & II	Chapter II& III
<b>Unit III</b>	Chapter V & X	
<b>Unit IV</b>	Chapter III & IV	
<b>Unit v</b>	Chapter II	

**Books for References:**

1. Abling, Bina And Maggio, Kathleen, Intergrating Draping, Drafting And Drawing, Fairchild Book.Inc.
2. Connie Amaden Crawford,” The Art Of Fashion And Design, Fairchild Publication.
3. Jaffe, Hible And Relin, Nurie, Draping For Fashion Design, Pearson Prentice Hall.
4. Helen Joseph Armstrong,” Pattern Making For Fashion Design 2000, Doring Kindersley(India Pvt).
5. Sandra Betzina, Fast Fit-“ Easy Pattern Alteration For Every Figure” 2003, Taunton Pr.

## SEMESTER I: CORE IV

### COMPUTER AIDED FASHION DESIGNING PRACTICAL - I

<b>Subject Code</b> :	<b>17PFT1C4P</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>20</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>80</b>

#### Objectives:

- To understand the methods and techniques used to analyze the garment design and textile design.
- To create the basic techniques of head theories based on children, women and men.
- To drape the fashionable fabric on the croquies.

1. Development of Croquies based on the Head Theories for Children in various Poses.	<b>9 Hrs</b>
2. Development of Croquies based on the Head Theories for Women in various Poses.	<b>9 Hrs</b>
3. Development of Croquies based on the Head Theories for Men in various Poses .	<b>9 Hrs</b>
4. Development of Costumes based on the Head Theories using Grids.	<b>9 Hrs</b>
5. Texture Mapping and Virtual Fashion – Mapping of Simple Texture.	<b>9 Hrs</b>
6. Texture Mapping and Virtual Fashion – Stripped and Geometrical Design.	<b>9 Hrs</b>
7. Texture Mapping and Virtual Fashion – Checks and Printed Design.	<b>9 Hrs</b>
8. Texture Mapping and Virtual Fashion – One way and Overall Design.	<b>9 Hrs</b>
9. Create the Traditional costume of states in India – Both Men and Women.	<b>9 Hrs</b>
10. Create the historical costume of World Countries – Both Men and Women.	<b>9 Hrs</b>



## SEMESTER I: CORE BASED ELECTIVE I

### TEXTILE DYEING AND FINISHING

<b>Subject Code</b> :	<b>17PFT1CE1</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To gain the knowledge on fiber properties and finishes.
- To ensure the knowledge on wet processing.
- To know the difference between dyeing and printing.

#### UNIT-I: FABRIC PREPARATORY PROCESS

**18 Hrs**

Enzymatic pretreatment processing for Cotton, Silk and Wool, # Degumming for Silk, carbonizing for Wool #. .

#### UNIT-II: RECENT TRENDS IN DYEING

**18 Hrs**

Dyeing – # meaning and importance #. Recent Trends – Microwave Dyeing, Super Critical CO<sub>2</sub> Dyeing, Ultrasonic Dyeing, Plasma Treated Dyeing – Principle, Mechanism and procedure for Dyeing.

#### UNIT-III: BASIC FINISHES

**18 Hrs**

Finishing – purpose and importance – classification of Finishing – # Temporary Finishes– Calendering, Embossing, Starching, Stiffening #, Softening. Permanent Finishes – Sanforising, Mercerizing, Anti-Crease Finish, Durable Press Finish.

#### UNIT-IV: FUNCTIONAL FINISHES

**18 Hrs**

Anti-Microbial – procedure, evaluation and its importance. Anti-Bacterial – procedure and its importance. Insect Repellant Finish – procedure, evaluation and its importance. # Flame Retardant Finish, Fireproof Finish #, Bullet Proof Finish, Water Repellant Finish, Water Proof Finish, Denim Finish, Resin Finish, Anti – Pilling Finish, Soil Release Finish, Silicone Finish.

#### UNIT-V: FINISHING TECHNIQUES

**18 Hrs**

Mechanism and procedure of - # Padding Managle #, Sonicator techniques, Plasma, Nano Application, Microencapsulation.

. #.....# **Self Study Portion**

## **TEXT BOOKS:**

**T. B-1** Textile Dyeing and Finishing- Study Material prepared by the Department.

**T. B-2** Needles.H.L, Textile Fibers, Dyes, Finishes and Processes , Noyes Publications, 2011.

**T.B-3** Singh.K.V.P, Elementary Idea of Textile Dyeing, Printing and Finishing ,Kalyani Publishers, 2009.

**T. B-4** Smith.J.L, Textile Processing, Printing Dyeing, Finishing , Abhishek Publications, Chandigarh, 2006.

**T. B-5** Corbman.B.P, Textile Fiber to Fabric, MCGRAW, HILL International Edition, Sixth Edition, 2009.

<b>UNIT- I</b>	Chapter IV	<b>T.B- 1</b>
<b>UNIT-II</b>	Chapter XVIII	<b>T.B-2</b>
<b>UNIT- III</b>	Chapter V	<b>T.B-3</b>
<b>UNIT-IV</b>	Chapter VI	<b>T.B-4</b>
<b>UNIT- V</b>	Chapter XI & XII	<b>T.B-5</b>

## SEMESTER I: CORE BASED ELECTIVE I

### COMPUTER APPLICATION IN FASHION DESIGNING

<b>Subject Code</b> :	<b>17PFTICE1</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To know the applications of Computer Aided Designing in Fashion Industry.
- To ensure the knowledge about different types of silhouette.
- To gain the knowledge on presentation and graphics.

#### UNIT-I: INTRODUCTION

**18 Hrs**

Introduction and Meaning for CAD, # Computer and Fashion Industry. Acceptance of New Technology #. Quick response Technology. CAD in today's Fashion Industry. Types of CAD Systems – Textile Design System, Illustration / Sketchpad System. Texture Mapping – Draping Software, Embroidery System, Specification and Costing System.

#### UNIT-II: SILHOUETTE

**18 Hrs**

Silhouette- Introduction # understanding shape # fabric selection and Silhouette, proportion, line, focal point, cut, fit and construction, Coordinating Silhouette, Rendering Silhouette, Computer rendering of Silhouette.

#### UNIT-III: SOFTWARE APPLICATION IN TEXTILES AND APPAREL MACHINERY

**18 Hrs**

Digitizing and grading system, Marker-Making Systems, Pattern Design Software, Robotics and Garment moving Technology. # Commercial Software Systems #.Knitting Machines, Embroidery Machines, Cutting, Spreading, Pattern Making Machine.

#### UNIT-IV: COLOUR AND FABRIC SELECTION

**18 Hrs**

Colour –Introduction, Colour systems, working with Colour, understanding the Colour wheel, Colour and apparel industry, communicating Colour, Colour and digital word, Colour for visualization versus Colour for production, # Computer Colour Matching #. Fabric selection process, organizing the fabrics, designing textiles, printed fabrics using scanner, Computerized pattern generation.

#### UNIT-V: PRESENTATION AND GRAPHICS

**18 Hrs**

Introduction, External Presentation, Internal Presentation, # Planning a Presentation – Organization and Composition #. Computer generated Presentation, Computer generated Catalogues, Presentation Board, Multimedia and 3 – D Presentation.

**#.....# Self Study Portion**

**TEXT BOOK:**

**T.B-1** CAD for Fashion Design, by Rene Weiss Chase, Prentice Hall, Upper Saddle River, London.

<b>UNIT- I</b>	Chapter I& II	<b>T.B-1</b>
<b>UNIT- II</b>	Chapter VII	<b>T.B-1</b>
<b>UNIT- III</b>	Chapter II&III	<b>T.B-1</b>
<b>UNIT- IV</b>	Chapter V&VI	<b>T.B-1</b>
<b>UNIT- V</b>	Chapter VIII	<b>T.B-1</b>

**Books for References:**

- 1.Mikell P.Groover, Emory W.Zimmers, Jr. – “CAD / CAM Computer – Aided Design and Manufacturing” – 1983.
- 2.Alison Beazley and Terry Bond, “Computer – Aided Pattern Design and Product Development” – Blackwell Publishing, 2003.
- 3.Stacy Stewart Smith, “CAD for Fashion Design and Merchandising” – Fair Child Publications, 2013.
- 4.Laura Nugent, “Computerized Pattern Making for Apparel Production” – Fair Child Publications, 2008.

## SEMESTER II: CORE V

### QUALITY STANDARDS AND SPECIFICATIONS

<b>Subject Code</b>	<b>:</b>	<b>17PFT2C5</b>	<b>Max. Marks</b>	<b>:</b>	<b>100</b>
<b>Hours/Week</b>	<b>:</b>	<b>6</b>	<b>Internal Marks</b>	<b>:</b>	<b>25</b>
<b>Credits</b>	<b>:</b>	<b>5</b>	<b>External Marks</b>	<b>:</b>	<b>75</b>

#### Objectives:

- To understand the standards of maintaining quality.
- To know about the specifications in Quality.
- To gain knowledge about the means of achieving quality in textiles.
- To know about the care labeling in textiles.

#### UNIT-I: INTRODUCTION TO QUALITY STANDARDS 18 Hrs

# Introduction to quality standards - Importance - Benefits - Levels and sources of quality standards #. British standards and ISO standards, ISO 9000, ISO 1400, ASTM, BIS, AATCC Standards. ISO Standards for fiber, yarn, fabric, apparel, sewing and knitting machines. Oeko Tex Standard 100.

#### UNIT-II: QUALITY INSPECTION 18Hrs

Raw material inspection, In-process inspection – Spreading to Finishing, Final Inspection – Textile Product Evaluation, # Atmospheric conditions for Testing #, Fabric Stretch Properties, dimensional changes in fabric due to laundering - dry cleaning and pressing , seam strength in woven and knitted fabrics. # Needle cutting / yarn severance, durable press for fabrics#.

#### UNIT-III: QUALITY FACTORS IN APPAREL 18Hrs

Sensitizing dye stuff, Allergic dyes, Carcinogenic amines, Red listed chemicals as per eco specifications. Eco-management of textile and apparel - Global scenario -Eco mark & environment friendly textiles. Apparel defects- Raw materials to packing, Quality Costs and Customer returns.

#### UNIT-IV: LABELING IN APPAREL 18Hrs

# Care Labeling and its parameters #, Labeling Systems-American, British, Canadian, Japanese and International. # Color measuring instruments-spectrophotometer # – shade sorting – factors responsible for shade variation. ECO labeling and marking.

#### UNIT-V: QUALITY CONTROL PROGRAMME AND TECHNIQUES 18Hrs

Starting a quality control program - Implementation of quality system in production line - Product specification and analysis using analytical tools - Quality management through inspection - Testing and sewing quality tools # Seven tools in quality programme #, 4-point and 10- point system – Quality concept and costs; quality assurance; statistical quality control, acceptance sampling, zero defects, six sigma, Quality Cycle.

#.....# **Self Study Portion**

**TEXT BOOKS:**

**T.B – 1** Mehta.P.V and Bhardwaj.S.K, Managing Quality in the Apparel Industry, New age international Ltd Publishers, 1998.

**T.B – 2** Kadolph.S.J, Quality assurance for textiles and apparel, 2<sup>nd</sup> edition, Fair child Publications, Inc, New York, 2008.

**T.B-3** Souza.N.D, Fabric Care, New age International (P) Ltd, Publishers, Chennai.

<b>UNIT- I</b>	Chapter XIV	<b>T.B – 1</b>
<b>UNIT-II</b>	Chapter X, XI	<b>T.B-2</b>
<b>UNIT-III</b>	Chapter XIII&V	<b>T.B-2 &amp; T.B-3</b>
<b>UNIT-IV</b>	Chapter IX	<b>T.B-2</b>
<b>UNIT-V</b>	Chapter XV	<b>T.B-2</b>

**Books for References:**

1. Pradip V. Mehta J.S.N. An introduction to quality control for the apparel industry International, 1985
2. Mehta.P.V and Bhardwaj.S.K, Managing Quality in the Apparel Industry, New age international Ltd Publishers, 1998.
3. Glock Ruth E., Glock Apparel Manufacturing: Sewn Product Analysis, 4/E
4. J.E.Booth, Newness Butterworth, London - Principles of Textile Testing
5. Billie J. Collier and Helen E. Epps, Prentice Hall, New Jersey- Textile Testing and Analysis
6. John H. Skinkle, Brooklyn, New York - Textile Testing
7. Groover and Hamby-Handbook of Textile Testing and Quality Control

**SEMESTER II: CORE VI**

**EXPORT DOCUMENTATION**

<b>Subject Code</b> :	<b>17PFT2C6</b>	<b>Max Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>5</b>	<b>External Marks</b> :	<b>75</b>

**Objectives:**

- To understand the international trade in garment industry.
- To study the import and export procedures.
- To know the required documents for export and import.
- To learn the tax and tariffs for international trade.

**UNIT-I: OVERVIEW OF TRADE** **18 Hrs**

Globalization-Features of International Trade-Trends, Composition and direction of International trade. Problems in foreign trade. #Composition of Import and export of India#

**UNIT-II: INTERNATIONAL TRADE DOCUMENTS** **18 Hrs**

Regional trade documents-Regulatory Framework, Foreign Trade Documents , Regulatory Documents, Commercial Documents # Letter of Credit # Contract Terms and Export Documents.

**UNIT-III: EXPORT AND IMPORT PROCEDURES** **18 Hrs**

Getting established as an Exporter, Entering into Export Contract, Execution of Export Order, Post Shipment Procedures, Export Promotion Measures, # Incentives and Facilities to Exporters #.The Import Process, Customs Clearance for Imports.

**UNIT-IV: FOREIGN EXCHANGE** **18 Hrs**

Nature of Foreign Exchange market, Main functions. Exchange Control- Regulations of FERA # Policy on Foreign private investment. Cost differences-Meaning and classification – Trade and Tariffs.

**UNIT-V: RECENT DEVELOPMENTS IN FOREIGN TRADE** **18 Hrs**

World Trade Organization (WTO) – Regional Trade Agreements – European Union – # Current trends in International Trade # – GATT –IBRD-International bank for reconstruction and development-IMF

#.....# **Self Study Portion**

**TEXT BOOKS:**

**T.B-1** Jeevanandam.C, Foreign Trade, 1<sup>st</sup> Edition, Sultan Chand and Sons, New Delhi, 2005.

**T.B-2** Joshi.P, Apparel and Textile Exports, CBS Publishers, New Delhi, 2006.

**T.B-3** Export Documentation – Study Material prepared by the Department.

<b>UNIT-I</b>	Chapter I	<b>T.B-1</b>
<b>UNIT-II</b>	Chapter III	<b>T.B-1</b>
<b>UNIT-III</b>	Chapter IV&V	<b>T.B-1</b>
<b>UNIT-IV</b>	Chapter I	<b>T.B-3</b>
<b>UNIT-V</b>	Chapter XII &II	<b>T.B-1 and 3</b>



## SEMESTER II: CORE VII

### COMPUTER AIDED FASHION DESIGNING - PRACTICAL – II

<b>Subject Code</b> :	<b>17PFT2C7P</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>20</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>80</b>

#### Objectives:

- To understand the methods and techniques used to analyze the accessories design and develop the mood board using computer.
- To create garments for various occasions based on themes.
- To learn the drafting and grading procedure for knitted and woven garments.
- To gain knowledge about lay planning for knitted and woven garments.

1. Designing different types of Fashion Accessories. **10 Hrs**
  - Hand bag
  - Foot Wear
  - Hats/Head coverings.
2. Development of Mood Board for a Children's Wear. **10 Hrs**
3. Development of Texture Board using Women's Wear. **10 Hrs**
4. Development of Colour Board using Men's Wear. **10 Hrs**
5. Designing Garments for Various Occasions based on Themes – Children. **10 Hrs**
6. Designing Garments for Various Occasions based on Themes – Female. **10 Hrs**
7. Designing Garments for Various Occasions based on Themes – Male. **10 Hrs**
8. Draft the Pattern and Grade using Spec Sheets for Knitted Garments. **10 Hrs**
9. Draft the Pattern and Grade using Spec Sheets for Woven Garments. **10 Hrs**
10. Lay Planning for Knitted and Woven Garments. **10 Hrs**

## SEMESTER II: CORE VIII

### FABRIC CARE

<b>Subject Code</b> :	<b>17PFT2C8</b>	<b>Max Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credit</b> :	<b>4</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To impart the knowledge about care of the fabric.
- To acquire knowledge and understand various fabric effects and care labels.

#### **UNIT – I WATER** **18 Hrs**

#Water – Hard and Soft water #, methods of water softening. Laundry soaps- types of soap, Manufacturing of soap, composition of soap, properties of soap. Soapless detergents – Detergent Manufacturing, merits and demerits of detergent.

#### **UNIT –II LAUNDRING EQUIPMENTS** **18 Hrs**

Laundry equipment – for storage, steeping and washing. Types of equipments – wash board, suction washer, wash boiler, washing machine. # Drying equipments – outdoor and indoor types # Irons and ironing board – Types.

#### **UNIT–III STIFFENING AND STARCHING AGENTS** **18 Hrs**

Stiffening agents - starch and other stiffening agents, preparation of starch., Bleaching agents - Types of Bleaching agents. Grease Removers - Grease solvents-Grease Absorbents. Laundry blues and their application - Optical blues.

#### **UNIT – IV PRINCIPLES OF WASHING & FINISHING** **18 Hrs**

Laundering & their principles - Principles of washing, kneading and squeezing. # Cotton #, Linen, Woolen, Colored fabrics, Silk, Rayon, Synthetics, Lace, carpets and rugs, upholstery, Draperies and Curtains. Methods of finishing - Damping, ironing, pressing, steaming, mangling, calendaring - care & cleaning of irons.

#### **UNIT – V REMOVAL OF STAINS** **18 Hrs**

Dry cleaning- Definition and its types. Stain Removal, # Home Removal of Stains – Points to Remember #, Classification into Animals, vegetables, Dye & Mineral stains - scorch and Grass stains - General rules and ways of stain removal. Care labels - washing, bleaching, Drying, ironing and different placements of label in garments.

#.....# **Self Study Portion**

**TEXT BOOKS:**

**T.B-1** Gupta et al, Text Book of Clothing and Textiles and Laundry , 5<sup>th</sup> Edition, Kalyani Publishers, New Delhi, 2006.

**T.B-2** Noemi. D Souza, Fabric care, New age International (P) Limited, Publishers, Chennai.

<b>Unit I</b>	Chapter VI	<b>T.B-1</b>	Chapter II	<b>T.B-2</b>
<b>Unit II</b>	Chapter V	<b>T.B-1</b>	Chapter X	<b>T.B-2</b>
<b>Unit III</b>	Chapter VI	<b>T.B-1</b>	Chapter VI	<b>T.B-2</b>
<b>Unit IV</b>	Chapter II&IV	<b>T.B-1</b>	Chapter XI&XIII	<b>T.B-2</b>
<b>Unit V</b>	Chapter III	<b>T.B-1</b>	Chapter VIII,IX&XII	<b>T.B-2</b>

## SEMESTER II: CORE BASED ELECTIVE II

### RESEARCH METHODS AND STATISTICS

<b>Subject Code</b> :	<b>17PFT2CE2</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To understand the fundamental principles and techniques of methodology concerning research.
- To apply statistical procedure to analyze numerical data and draw inferences.

#### UNIT-I: RESEARCH METHODOLOGY 18Hrs

Meaning of Research, Objectives of Research, Types of Research, Research Process, and Criteria of Good Research. Defining the Research Problem, necessity of defining the problem, Technique involved in defining a problem. Research Design – Meaning and Needs, # Features of Good Design, Important Concepts relating to Research Design #.

#### UNIT-II: SAMPLING AND SCALING TECHNIQUES 18 Hrs

Sample Design # different types of sampling designs # – probability and non- probability methods. Technique of developing measurement tools, Meaning of scaling, rating scale, scale construction techniques – arbitrary scales, differential scales, summated scales, cumulative scales, factor scales.

#### UNIT-III: DATA COLLECTION 18Hrs

Methods of Data Collection, Primary Data - Observation Method, # Interview Method, Questionnaires, Schedules, Difference between Questionnaires and Schedules #. Secondary Data - Selection of Appropriate Method for Data Collection, Case Study Method. Processing of data – editing and coding of data.

#### UNIT-IV: MEASURE OF CENTRAL TENDENCY, DISPERSION & CORRELATION 18Hrs

# Meaning and Scope of Statistics #, Measure of Central Tendency – mean, median and mode. Measures of dispersion – range, quartile deviation, mean deviation, standard deviation and co-efficient variation. Correlation – Definition, difference between co-efficient of Correlation and Rank Correlation, Regression analysis.

#### UNIT-V: TESTS OF SIGNIFICANCE 18Hrs

Tests of Significance/ Hypothesis – meaning. Parametric Tests for Small Sample – Student's t-distribution, Fisher's Test – ANOVA (One Way and Two Way). Non-Parametric Tests for Large Sample – Chi-Square, # important characteristics of  $\chi^2$  #.

#.....# **Self Study Portion**

**TEXT BOOKS:**

**T.B-1** Kothari .C.R, Research Methodology methods and techniques, 2<sup>nd</sup> Edition, New Age International Publishers, New Delhi, 2004.

**T.B-2** Manoharan.M, Statistical Methods Theory and Practice, Palani Paramount Publications, Tamil Nadu, 1992.

<b>UNIT-I</b>	Chapter I, II & III	<b>T.B-1</b>
<b>UNIT-II</b>	Chapter IV & V	<b>T.B-1</b>
<b>UNIT-III</b>	Chapter VI & VII	<b>T.B-1</b>
<b>UNIT-IV</b>	Chapter VI, VII, IX & X	<b>T.B-2</b>
<b>UNIT-V</b>	Chapter XVIII & XIX	<b>T.B-2</b>

**Books for References:**

- 1.Gupta.S.P, “Statistical Methods”, Sulthan Chand and Sons, New Delhi, 1996.
- 2.Devada.R.P, “A Handbook on Methodology of Research”, Sri Ramakrishna Vidyalaya Coimbatore, 1989.
- 3.Agarval.V.P, “Statistical Methods”, Sterling Publishers, Private Limited, 1990.
- 4.Best.J.M. & Kahn.J.V, “Research in Education’, Prentice Hall of India Limited, New Delhi, 1989.

## SEMESTER II : CORE BASED ELECTIVE II

### APPAREL MARKETING

<b>Subject Code</b> :	<b>17PFT2CE2</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To enable students to gain information and techniques for production and marketing of apparels.

#### **UNIT-I: APPAREL MARKETING** **18Hrs**

Marketing – Definition, # types and functions #, concept – system – environment –tasks – mix, market survey and research.

#### **UNIT-II: APPAREL PRODUCT PLANNING AND DEVELOPMENT** **18Hrs**

Product planning and development product innovation – organization for product innovation – new product, planning process – manufacturer’s criteria for new product – timing of new product – product life cycle – product mix – failure of new product – product line policies and strategies – # factors influencing changes in product mix # – strategic planning process.

#### **UNIT-III: APPAREL ADVERTISING** **18Hrs**

Meaning – definition – importance – objectives – benefits – criticism – scientific advertisement types – media – copy – qualities of a good copy- advertising departments and agencies – advertisement ratio – advertising campaigns – AIDA concepts – # measurement of advertisement success #.

#### **UNIT-IV: APPAREL PROMOTIONAL PROGRAMMES** **18Hrs**

Promotional methods –SWOT Analysis- promotional mix – promotional strategy – point of purchase – sales promotion programmes – policies – # sales promotion techniques #.

#### **UNIT-V: DISTRIBUTION STRATEGIES FOR EXPORT MARKETING** **18Hrs**

Channels of distribution – # factors affecting the choice of distribution # – channels middle men wholesalers, retailers, retailing institutions – influence of MNC’s in India retail apparel market.

. #.....# **Self Study Portion**

#### **TEXT BOOK:**

**T.B-1** Apparel Marketing - Study Material prepared by the Department.

<b>UNIT- I</b>	Chapter I	<b>T.B-1</b>
<b>UNIT-II</b>	Chapter II	<b>T.B-1</b>
<b>UNIT-III</b>	Chapter III	<b>T.B-1</b>
<b>UNIT-IV</b>	Chapter IV	<b>T.B-1</b>
<b>UNIT V</b>	Chapter V	<b>T.B-1</b>

**Books for References:**

- 1.Kotler, Keller Koshy., “Marketing Management”, Jha.Pearson Education”, 2009.
- 2.Elizabeth, Richards.A, David Rachman, “ Market Information and Research in Fashion Management”, Marketing Classics Press, 2011.
- 3.Edwin.M, Mcpherson, “ Apparel Manufacturing Management Systems: A Computer-oriented Approach”, Noyes Publications, 1987.
- 4.Myron.M, Lebensburger, “ Selling Men's Apparel Through Advertising, McGraw-Hill book Company, 1939.

## SEMESTER III: CORE IX

### TECHNICAL TEXTILE

<b>Subject Code</b> :	<b>17PFT3C9</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>5</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To know the development of textiles in various fields.
- To orient students to the field of technical textiles.
- To enable them to learn the developments in technical textiles.

#### UNIT-I: TECHNICAL TEXTILE

**18 Hrs**

Definition and Scope of Technical Textiles. Technical Textiles-Field of applications. Role of Fibers in Technical textile-classic fibres and special fibres. Fabric Structure –Woven, Knitting and Non-Woven-Laid scrim, Braiding and rope making. # Different types of Fabric in Technical Textiles – Properties#.

#### UNIT-II: AGRO TECH, BUILD TECH AND CLOTH TECH

**18 Hrs**

# Role of textiles in agriculture #- Horticulture-Forestry and fishing. Features of build tech-Textile reinforcement, Light weight materials, Textile roofing and membranes. Clothing-Components of clothing and footwear industry.

#### UNIT-III: GEO TECH, HOME TECH AND INDU TECH

**18 Hrs**

Geo textile-Soil sealing, Drainage, Textile for civil and hydraulic engineering. # Components of Home tech-furniture # , Interior textiles and floor coverings. Textiles in industry-Filtration textile reinforcement, sound insulation and means of conveyance.

#### UNIT-IV: MEDTECH, MOBILTECH AND OEKO TECH

**18 Hrs**

# Medical and hygienic textiles #. Textiles for transportation –automotive, aerospace, shipbuilding and railway vehicle industries. Textiles for environment protection.

#### UNIT-V: PROTECH, PACKTECH AND SPORTTECH

**18 Hrs**

# Textile for personal and property protection # - Work wear and fire protection. Packtech-Industrial and consumer pack. Sport textiles-sporting and leisure applications, textile reinforced sporting equipment.

#.....# **Self Study Portion**



**TEXT BOOK:**

**T.B-1** Horrocks, A.R. and Anand, S.C, Handbook of Technical Textiles, The Textiles Institute, Wood Head Publishing Ltd., England, 2000.

T.B-2 Study material prepared by the department.

<b>UNIT-I</b>	Chapter I & II	<b>T.B-1 &amp; 2</b>
<b>UNIT-II</b>	Chapter XIX	<b>T.B-1 &amp; 2</b>
<b>UNIT- III</b>	Chapter XV	<b>T.B -1 &amp; 2</b>
<b>UNIT-IV</b>	Chapter XVIII	<b>T.B-1 &amp; 2</b>
<b>UNIT-V</b>	Chapter XVI	<b>T.B-1 &amp; 2</b>

**Books for References:**

1. Pandey.S.N, Potential for the use of natural fibers in civil engineering, Jute technological research laboratory, 2002.
2. Rigby, A.J.andAnand S.C, Non-Woven in medical healthcare products, technical textiles, Int., 1996.

## SEMESTER III: CORE X

### TEXTILE MANAGEMENT

<b>Subject Code</b> :	<b>17PFT3C10</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>5</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To enable students to learn the concept of management prevailing in textile and garment industries.

#### **UNIT-I: INTRODUCTION TO TEXTILE MANAGEMENT** **18Hrs**

Introduction to textile management – Definition of management, Techniques, Time Study, Motion Study – Fatigue Study – TQM. production and operations management – system. # Approach of POM – production system #, Products and services – POM functions, operation strategies – competitive priorities of textile industry – productivity improvement.

#### **UNIT-II: HUMAN RESOURCE MANAGEMENT** **18Hrs**

Human Resource Management – Meaning, objectives, # Scope and functions – evolution of human resource management #. HRM department with reference to textile industry. Organization structure, recruitment selection and with reference to textile industry.

#### **UNIT-III: MANUFACTURING OPERATION** **18Hrs**

Manufacturing operations - scheduling – work centers – work center scheduling – sequencing – priority rules and techniques – shop floor control – Facility layout – process layout– line balancing – cellular layout. Principles and techniques of wage function – Job evaluation – methods – incentive schemes in the textile industry. Performance Appraisal – meaning – methods and techniques. # Requisites of good appraisal plan – performance evaluation – Feedback – Textile Industry Practices #.

#### **UNIT-IV: OVERHEAD EXPENSES** **18Hrs**

Analysis of overhead expenses – Factory expenses – Administrative expenses. Selling and distribution expenses – allocation of overhead expenses – depreciation – methods of calculating depreciation. # Norms for versions items of cost, Cost vs expenses #.

#### **UNIT-V: TRAINING AND MANAGEMENT PROGRAMMES** **18Hrs**

Training – Need – Identification of training needs. Planning training programmes – Types of training method – Common training practices in the textile industry. # Management development programmes – Objectives – process – techniques and methods #, Conducting meetings – Seminars and conferences – Evaluation. On the job and off the job training needs.

**#.....# Self Study Portion**

**TEXT BOOK:**

**T.B – 1** Textile Management – Study Material prepared by the Department.

**UNIT- I** Chapter I **T.B - 1**

**UNIT- II** Chapter II **T.B - 1**

**UNIT-III** Chapter III **T.B - 1**

**UNIT- IV** Chapter IV **T.B - 1**

**UNIT-V** Chapter V **T.B – 1**

**Books for References:**

1. Michael Armstrong, “ A Handbook of Management Techniques”, Kogar Page Limited, 1986.
2. N.Gaither and G.Frazier, “ Operation Management”, Thompson, Asia, 2004.
3. S.A.Chunwala and D.R.Patol, “Production and Operation Management”, Himalaya, 2004.
4. Decenzo and Robbins, “Human Resource Management”, Wiley, 2004.

## SEMESTER III: CORE XI

### FASHION DRAPING AND CONSTRUCTION- PRACTICAL

<b>Subject Code</b> :	<b>17PFT3C11P</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>20</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>80</b>

#### Objectives:

- To be more creative in design to develop the draping skill of the students.
- To know the basic of draping
- To develop pattern by using draping.
- To construct Fashion Garments using all Draping Techniques.

1.	Introduction to Draping	<b>3 Hrs</b>
2.	Blocks	<b>3 Hrs</b>
3.	Basic Bodice for Men and Women	<b>4 Hrs</b>
4.	Waist Line Variation – Natural / Drop / Empire	<b>10 Hrs</b>
5.	Party Wear – Yoke / Princess	<b>10 Hrs</b>
6.	Centre Front	<b>10 Hrs</b>
7.	Centre Back	<b>10 Hrs</b>
8.	Principles of Design – Balance, Rhythm, Harmony, Emphasis, Proportion	<b>10 Hrs</b>
9.	Combination of Fullness – Pleats, Darts, Tucks, Gathers, Ruffles	<b>15 Hrs</b>
10.	Combination of Waist Line Variation, Centre Front, Centre Back, Principles of Design, Fullness	<b>15 Hrs</b>

## SEMESTER III: CORE XII

### HOME TEXTILES –PRACTICAL

<b>Subject Code</b> :	<b>17PFT3C12P</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>20</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>80</b>

#### Objectives:

- To implement the students creativeness in decorating the home products.
- To innovate a product from wealth out of waste.

#### Designing and Constructing Home Textile Products

1. Living Room Linens		<b>24Hrs</b>
a. Sofa Covers	–	Cut Works
b. Cushion	–	Smocking
c. Carpet	–	Using Waste Material
d. Wall Hangings	–	Collage Work.
e. Curtains	–	Box, Pinch, Pleat, Café Curtain, Criss Cross Curtain
f. Draperies	–	Any One Method.
g. Door Screen	–	Frills, Ruffles, Lace, Bead Work.
2. Kitchen Linen		<b>18 Hrs</b>
a. Apron		
b. Gloves		
3. Table Linens		<b>15Hrs</b>
a. Runner	-	Hand / Machine Embroidery
b. Napkins	-	”
c. Tea Co seas	-	”
d. Table Mat	-	”
4. Bed Linen		<b>15Hrs</b>
a. Bed Spread	-	Tie and Dye
b. Baby Blanket	-	Quilting
c. Pillow Covers	-	Appliqué
d. Pillow	-	Patch Work
5. Bath Linen		<b>18 Hrs</b>
a. Hand Towel	-	Using Pile Material
b. Bath Towel	-	”
c. Bath Robes	-	”
d. Shower Caps	-	Using Resin finish or Rubberized Fabrics

## SEMESTER III: CORE BASED ELECTIVE III

### HOME SCIENCE

<b>Subject Code</b> :	<b>17PFT3CE3</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To orient students to the field of Home Science.
- To observe and understand the basics of nutrition.
- To enable students to gain knowledge in human development.
- To understand the fundamental principles of extension education.

#### UNIT-I: FOOD SCIENCE

**18Hrs**

# Functions of Food, Food Groups # and its nutritive values. Food preparation- Cooking Method and its classification, conservation of nutrients – Enhancing nutritive value of food items – methods of food enrichment. Food Preservation – principles, methods, preservative and its types. Food analysis- Purpose of analysis and standards.

#### UNIT-II: NUTRITION SCIENCE

**18Hrs**

Fundamentals of nutrition – Functions and sources of macro and micro nutrients – Deficiency diseases – Basal metabolism rate (BMR), Minimum nutritional requirement and recommended dietary allowances (RDA) and formulation of RDA and dietary guidelines with reference to men and women, community nutrition, # National and International Organizations#. Food Microbiology-Food born Disease.

#### UNIT-III: FAMILY RESOURCE AND MANAGEMENT

**18Hrs**

Concepts of home management –Importance of family resources (Human and Non-Human ) – Decision making – work simplifications and its techniques – Housing and its factors - # Interior design (Elements, principles of design and colour schemes) # - Household equipments. Accessories for Home Decoration- Functional and Decoration.

#### UNIT-IV: HUMAN DEVELOPMENT

**18Hrs**

Principles of development - # Stages of growth and development (Conception to old age ) # - Theories of human development – problems in childhood – Disabilities during childhood, Children with Behaviors Difficulties – Types of Behaviors Difficulties and Guidance.

#### UNIT-V: NON – FORMAL EDUCATION AND EXTENSION EDUCATION

**18Hrs**

Extension education – History and development of home science extension – objective and characteristics of home science extension. Difference between formal and extension education – Government and non-government organizations for extension education. # Monitoring Supervision and Evaluation Formal, Non Formal and Extension Education.

#.....# **Self Study Portion**

### **TEXT BOOKS:**

**T. B – 1** Mullick.P, Text Book of Home Science , Kalyani Publishers, 2010.

**T. B – 2** Khosla.A and Monacha.R, UGC NET/SET Home Science, Danika publishers of Trueman’s Specific Series, 2012.

**T. B – 3** Yadla.V.L and Jasrai.S, Kalyani Reference Book for UGC NET in Home Science, Kalyani Publishers, 2006.

<b>UNIT- I</b>	Chapter I&III	<b>T.B-3 &amp;T.B-1</b>
<b>UNIT- II</b>	Chapter II&III	<b>T.B – 3</b>
<b>UNIT- III</b>	Chapter VI&I	<b>T.B – 2&amp;T.B-1</b>
<b>UNIT-IV</b>	Chapter VII	<b>T.B-3</b>
<b>UNIT- V</b>	Chapter VIII	<b>T.B-3 &amp;T.B-2</b>

### **Books for References:**

1. Shanthi Ghosh,“Nutrition and Child Care – A Practical Guide”, Jay Pee Brothers Medical Publishers, Private Limited, New Delhi,1997.
2. Davidson.S.S, Passmore.P, Broke.J.F,“Human Nutrition and Dietetics”, 9th Edition, F & S Living Stone Limited, Edinburgh and London,1993.
3. Jeliffee.D.B,“Assessment of the Nutritional Status of the Community”, World Health Organization, Geneva,1966.
4. Devadas.R.P, “Nutrition in Tamil Nadu”, Sangham Publishers, 1972.

## SEMESTER III: CORE BASED ELECTIVE III

### HOME TEXTILES

<b>Subject Code</b> :	<b>17PFT3CE3</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>4</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To know the various product in home textile.
- To understand and to gain knowledge uses and care of home textile.
- To implement the students creativeness in decorating the home products.

#### **UNIT I: INTRODUCTION TO HOME TEXTILES** **18Hrs**

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

#### **UNIT II: FLOOR AND WALL COVERINGS** **18Hrs**

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

#### **UNIT III: DOOR AND WINDOW TREATMENTS** **18Hrs**

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** **18Hrs**

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 AND BATHROOM LINEN** **18Hrs**

Definition-Types of kitchen linens, Dish cloth, hand towels, Fridge, mixie and grinder covers. Their uses and care. Definition for dinning, Bathroom linens – types#. Factors affecting the selection of table and bathroom linens. Use and care #.

#.....# **Self Study Portion**



**TEXT BOOK:**

T.B.1 Home Textile –Study Material prepared by the Department.

**Books for 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 III: EXTRA CREDIT COURSE I

### FASHION RETAILING

<b>Subject Code</b>	<b>:</b>	<b>17PFT3EC1</b>	<b>Max. Marks</b>	<b>:</b>	<b>100*</b>
<b>Hours/Week</b>	<b>:</b>	<b>-</b>	<b>Internal Marks</b>	<b>:</b>	<b>-</b>
<b>Credits</b>	<b>:</b>	<b>5*</b>	<b>External Marks</b>	<b>:</b>	<b>100</b>

#### Objectives:

- To ensure the knowledge on organizational structure.
- To know the procedure of management control and functions.
- To gain the knowledge about purchase and fashion markets.

#### UNIT-I: INTRODUCTION

Classification of on-site Retailers – multi – channel Fashion Retailing – The Global Scene – Trends in On-Site Fashion Retailing – Small Store Applications. Organizational Structures: The need for Organizational Structures – Fashion Retailing Organization Charts – Trends in Organizational Structures.

#### UNIT-II: SOCIAL RESPONSIBILITY AND ENVIRONMENTS

Social Responsibility: Business Ethics – Social Responsibility – Trends in Ethics and Social Responsibility. Environments: Choosing the Location - Classification of Shopping Districts - Site Selection – Occupancy Considerations – Trends in Store Locations.

#### UNIT-III: MANAGEMENT AND CONTROL FUNCTIONS

Human Resource Management - Maintaining Equal Opportunity – The Recruitment Process – Internal and External sources – Training – Evaluating employees – Methods of Compensation – Employee benefits – Labour Relations – Employee turnover and profitability – Trends in Human Resource Management.

#### UNIT-IV: MERCHANDISING FASHION PRODUCTS

Planning and Executing the purchase – Fashion Buyers Duties and Responsibilities – Trends in Purchase Planning - Purchasing in the Domestic and Off-Shore Markets - The Domestic Market Place – Off-Shore Fashion Markets – Pricing Considerations.

#### UNIT-V: COMMUNICATING WITH AND SERVICING

Advertising and Promotion – Fashion retailer's sales promotion division – Advertising – Promotional Programs - Publicity - Trends in Advertising and Promotion.

#.....# **Self Study Portion**

**TEXT BOOK:**

**T.B-1** Diomond.E, Fashion Retailing, A Multi-Channel Approach, Second Edition, Dorling Kindersley Pvt Ltd., 2007.

<b>UNIT- I</b>	Chapter I & II	<b>T.B-1</b>
<b>UNIT-II</b>	Chapter VI &VII	<b>T.B-1</b>
<b>UNIT- III</b>	Chapter IX	<b>T.B-1</b>
<b>UNIT-IV</b>	Chapter XI, XII & XIV	<b>T.B-1</b>
<b>UNIT-V</b>	Chapter XV	<b>T.B-1</b>

## SEMESTER IV: CORE XIII

### FASHION PORTFOLIO PRESENTATION – PRACTICAL

<b>Subject Code</b>	<b>:</b>	<b>17PFT4C13P</b>	<b>Max. Marks</b>	<b>:</b>	<b>100</b>
<b>Hours/Week</b>	<b>:</b>	<b>6</b>	<b>Internal Marks</b>	<b>:</b>	<b>20</b>
<b>Credits</b>	<b>:</b>	<b>5</b>	<b>External Marks</b>	<b>:</b>	<b>80</b>

#### Objectives:

- Help to understand the concept of fashion designing.
- Develops the creativity in designing , pattern making and constructing the garments.

Portfolio to be planned for a season or occasion.

Students should use computer aided backdrops and computer aided designing to create the portfolio.

1. Theme Board, Mood Board, Story Board, Fabric Board, Colour Board to be presented separately or in a combined form. **18 Hrs**
2. Fabric Development Chart. **18 Hrs**
3. Design Development Chart. **18 Hrs**
4. Final Presentation. **18 Hrs**
5. Number of Garments in collection -2 to 4 Garments (Both Men / Women) **18 Hrs**

## SEMESTER IV: CORE XIV

### ENTREPRENEURIAL DEVELOPMENT

<b>Subject Code</b> :	<b>17PFT4C14</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>5</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- This course will help the student to gain an in-depth knowledge about starting New Business and about managing small and medium enterprises.

#### **UNIT- I: ENTREPRENEUR CONCEPT - OVERVIEW** **16 Hrs**

Entrepreneur – Entrepreneurship – Characteristics – Function – Types - #Entrepreneur Development – Role in Entrepreneur Development# - Women entrepreneurship – Problems & Issues – Development of women entrepreneur - Rural entrepreneurship – Need – Issues – Development steps.

#### **UNIT- II: EDP AND BUSINESS IDEAS** **16 Hrs**

Entrepreneurial Development Programmes (EDPs) – Needs- Objectives – Phases - Evaluation - Introductory framework of small enterprises – # Business Idea generation techniques #– Identification of Business opportunities - Project identification and selection

#### **UNIT- III: MARKETING CONCEPTS** **16 Hrs**

Core concepts of marketing- Production Concept – Product Concept - Selling concept, Marketing concept Consumer Behaviour Model - Buying decision process- # Buying roles & stages in buying#. Segmentation: Approach– Targeting – Positioning - Marketing Strategies: for leaders, for followers, for niche marketers, for challengers, for global markets.

#### **UNIT –IV: PRICING AND NEW PRODUCT DEVELOPMENT** **15 Hrs**

Pricing – Objectives, Influencing factors, methods, methods strategies for new products and existing products; Place - Channels decision Nature and Characteristics of Marketing channel Functions, Channel dynamics, Channel Design and Management decisions – Promotion - Promotional mix. Product – Levels, Hierarchy, Classification, mix decision and line decisions. Product Life Cycle (PLC) Strategies to be adopted in the Introduction, Growth, maturity and decline stages - # New Product development – Brand – definition#.

Institutional finance to Entrepreneur - lease financing and hire purchase - institutional support to Entrepreneur – Need – NSIC – SIDO – SISI- SSICS – DIC - # Taxation benefits to small scale industry#.

**#.....# Self Study Portion**

**TEXT BOOKS:**

1. **T.B-1** Gupta and Srinivasan N.P., Entrepreneurial Development, Sultan Chand & Sons, New Delhi.
2. **T.B-2** Philip Kotler, Marketing Management (Millennium edition), Prentice-Hall of India (P) Ltd., New Delhi.

**Books for References:**

1. S.S. Khanka, “Entrepreneurial Development”, S.Chand& Company Ltd., Edn.2001, New Delhi.
2. Saravanavel .P, Entrepreneurial Development, Ess Pee Kay Publishing House Edn. 1997, Chennai.
3. Robert D Michel, P. Peters, Entrepreneurship, Tata McGraw Hill Education Private Ltd, 5<sup>th</sup> Edition.
4. Zikmundd’ Amico, Marketing, South Western, Thomson Learning.
5. Michael R. Czinkota& Masaaki Kotabe, Marketing Management, Vikas Thomson Learning.

## SEMESTER IV: CORE XV

### TEXTILE ECONOMICS

<b>Subject Code</b> :	<b>17PFT4C15</b>	<b>Max. Marks</b> :	<b>100</b>
<b>Hours/Week</b> :	<b>6</b>	<b>Internal Marks</b> :	<b>25</b>
<b>Credits</b> :	<b>5</b>	<b>External Marks</b> :	<b>75</b>

#### Objectives:

- To enable students to recognize the importance of textile industry in Indian economy
- To learn the origin, development, organization and problems of the industry.

#### **UNIT-I: THE TEXTILE INDUSTRIES OF INDIA** **18 Hrs**

Origin and Growth of Major Textile Industries – Cotton, Wool, Silk and Jute. Growth of synthetic and manmade textiles-Viscose rayon, Nylon and polyester # Recent Developments in these Industries #.

#### **UNIT-II: MINOR TEXTILE INDUSTRIES AND ALLIED INDUSTRIES** **18 Hrs**

Origin and Growth of Minor Textile Industries and Allied Industries – Coir, Leather, Paper, # Chemicals, Dyes # Textile Machinery.

#### **UNIT-III: HOSIERY INDUSTRY** **18 Hrs**

Origin, Growth and industrial development of spinning, knitting, dyeing and printing. #Hosiery and Readymade Garment#

#### **UNIT-IV: HANDLOOM, POWER LOOM AND KHADI INDUSTRY** **18 Hrs**

Origin, Growth and Development of Handloom, Power loom and Kadhi Industries. #Ministry of textiles-Role and its functions #. Role of Five year plans in the development of Textile Industries .

#### **UNIT-V: ASSOCIATIONS AND RESEARCH ORGANIZATIONS RELATED TO TEXTILE INDUSTRY** **18 Hrs**

SITRA, NITRA, SASMIRA, AITRA, TEA, SIMA, NIFT, CIRCOT, BITRA, MANDRA, Indian Jute Research Association # Export promotion Council-AEPC,ISEPC.#

. #.....# **Self Study Portion**

#### **TEXT BOOKS:**

**T. B-1** Textile Economics - Study Material prepared by the Department.

**T.B-2** Textile Economics-II - Study Material prepared by the Department.

<b>UNIT- I</b>	Chapter I	<b>T.B- 1 and 2</b>
<b>UNIT-II</b>	Chapter II	<b>T.B-1 and 2</b>
<b>UNIT- III</b>	Chapter III	<b>T.B-1 and 2</b>
<b>UNIT-IV</b>	Chapter IV	<b>T.B-1 and 2</b>
<b>UNIT- V</b>	Chapter V	<b>T.B-1 and 2</b>



**SEMESTER IV: PROJECT**

**PROJECT**

**Subject Code : 17PFT4PW**  
**Hours/Week : 12**  
**Credits : 9**

**Max. Marks : 200**  
**Internal Marks : -**  
**External Marks : 200**

## SEMESTER IV: EXTRA CREDIT COURSE II

### WORLD COSTUMES

<b>Subject Code</b> :	<b>17PFT4EC2</b>	<b>Max. Marks</b> :	<b>100*</b>
<b>Hours/Week</b> :	<b>-</b>	<b>Internal Marks</b> :	<b>-</b>
<b>Credits</b> :	<b>5*</b>	<b>External Mark</b> :	<b>100</b>

#### Objectives:

- To know the various costume innovation around the world.
- To study the different features and trends in the world level costumes.

#### UNIT-I: HISTORIC COSTUMES

Beginning of Costumes – Costumes in Early years, Major Civilization of the world and process of costumes, Factor Influencing, Costume changes.

#### UNIT-II: ANCIENT ERA AND AFRICAN COSTUME

French Costumes, Egypt Costumes, Mesopotamian Costumes, Roman Costumes and African Costumes.

#### UNIT-III: ASIAN AND AFRICAN COSTUMES

Ceylon, Burma, China, Japan, Philippines, Thailand and Pakistan.

#### UNIT-IV: GREEK AND AMERICAN COSTUMES

Greek – Men's and Women's costumes 8<sup>th</sup> to 18<sup>th</sup> Centuries. American – Men's and Women's Costumes, 15<sup>th</sup> Century - Men's and Women's costumes, 16<sup>th</sup> Century - Men's and Women's costumes.

#### UNIT-V: RECENT TRENDS IN COSTUMES

Recent trend in Costumes and influences for Far East Countries, India, European Countries and American – Colour, Designs, Silhouette.

#.....# **Self Study Portion**

#### TEXT BOOK:

**T.B –1** World Costumes – Study Material prepared by the Department.

<b>UNIT- I</b>	Chapter I	<b>T.B - 1</b>
<b>UNIT- II</b>	Chapter II	<b>T.B - 1</b>
<b>UNIT-III</b>	Chapter III	<b>T.B - 1</b>
<b>UNIT- IV</b>	Chapter IV	<b>T.B - 1</b>
<b>UNIT-V</b>	Chapter V	<b>T.B – 1</b>

**Books for References:**

- 1.Sodia, “ History of Fashion”, 1<sup>st</sup> Edition, Kalyani Publishers, Chennai, 2004.
- 2.McClaud.P, “Past and Present Trends Fashion Technology”, 1<sup>st</sup> Edition, Abhishek Publishers, 2009.
- 3.Pundir.N, “Fashion Technology Today and Tomorrow”, 1<sup>st</sup> Edition, Mittal Publications, 2007.
- 4.Angela Bradshaw, “World Costumes”, Macmillan, 1974.