

BHARATHIAR UNIVERSITY COIMBATORE – 641 046
M.Sc. TEXTILES AND APPAREL DESIGN
UNIVERSITY DEPARTMENT

VISION

To provide customized academic programs that nurtures, motivates and inspires excellence in teaching and research, along with concern for the society.

MISSION

- To serve as a knowledge and skill hub for the professional development of students.
- To impact theoretical and practical training in advanced areas of Textiles and Apparel industry.
- To serve the textile industry and the society with creative research outcomes with insight development and a passion for science.
- To develop the competency of students for their excellence in career.

PROGRAMME OBJECTIVE (PO)

On completion of M.Sc Textiles and Apparel Design Programme, the students are expected to

- PO1-** Apply knowledge of fiber, yarn and fabrics, wet – processing domain knowledge for apparel design for producing creative fashion trends that can serve the purpose for appealing garment design and functionality, evaluating with various evaluation techniques for different seasonal wear using modern computer design.
- PO2-** Demonstrate knowledge and understanding in Technical Textiles to offer solution for various application and specific function.
- PO3-** Understand Global Scenario and have ability to engage in independent learning for continual development as fashion garment designer to communicate effectively with society to replicate the traditional trends with professional ethics and global standards for garment design.
- PO4-** Have strong confidence in ability to Visual Presentation and marketing to become successful garment designer by choosing appropriate fabrics for drapable garment manufacture for appealing fit.
- PO5-** Apply knowledge on Eco dye coloration and zero discharge measures for future sustainability.

**M.Sc. TEXTILES AND APPAREL DESIGN
UNIVERSITY DEPARTMENT
(For the students admitted from the academic year 2019-2020 onwards)
SCHEME OF EXAMINATION – CBCS PATTERN**

Study Components	Ins. hrs / week	Exam				Credit
		Exam Hrs.	CIA	CEA	Total	
Semester I						
PAPER –I Research Methodology & Statistics	4	3	25	75	100	4
PAPER- II Advanced Textile Science	4	3	25	75	100	4
PAPER - III Apparel Production Technology	4	3	25	75	100	4
PRACTICAL -I Innovative CAD Designing	5	4	30	45	75	3
PRACTICAL -II Advanced Draping	5	4	40	60	100	4
ELECTIVE –I	4	3	25	75	100	4
Supportive I Offered by other Departments	2	3	12	38	50	2
Mentor/Library/Seminar/Test	2	-	-	-	-	-
Semester II						
PAPER-IV Advanced Wet Processing	4	3	25	75	100	4
PAPER-V Technical Textiles	4	3	25	75	100	4
PAPER-VI Textile Testing	4	3	25	75	100	4
PRACTICAL –III Textile Testing	5	3	40	60	100	4
PRACTICAL –IV- Advanced Garment Construction	5	4	40	60	100	4
ELECTIVE –II	4	4	25	75	100	4
Supportive II Offered by other Departments	2	3	12	38	50	2
Mentor/Library/Seminar/Test	2	-	-	-	-	-
Internship Training						
Semester III						
PAPER- VII Apparel Quality Standards and Implementation	4	3	25	75	100	4
PAPER-VIII Clothing Appearance and Fit	4	3	25	75	100	4
PAPER-IX Eco Textiles and Sustainability	4	3	25	75	100	4
PRACTICAL -V Surface Enrichment on Textiles	5	4	30	45	75	3
PRACTICAL -VI Portfolio Presentation	5	4	40	60	100	4
ELECTIVE - III	4	3	25	75	100	4
Internship Report and Viva Voce *	-	-	50	-	50	2
Supportive III Offered by other Departments	2	3	12	38	50	2
Mentor/Library/Seminar/Test	2	-	-	-	-	-
Semester IV						
Practical -VII CAD in Textile Designing	6	4	40	60	100	4
Project work & Viva voce **			-	-	200	8
Mentor/Library/Seminar/Test	2	-	-	-	-	-
TOTAL					2250	90
Online Courses***					-	2
TOTAL					2250	92

* Internship for 15 days after II Semester

**For Project Report 80% Marks & Viva-Voce 20% Marks

***Additional Credits will also be included in the Marksheets

ELECTIVE PAPER With effect from 2019-2020 onwards

	SEMESTER – I	SEMESTER – II	SEMESTER – III
A DESIGNING	FASHION CONCEPTS AND DESIGNING	SOCIAL AND PSYCHOLOGICAL ASPECTS OF CLOTHING	CLOTHING CARE AND MAINTENANCE
B MARKETING	APPAREL MARKETING AND MERCHANDISING	VISUAL MERCHANDISING	ENTREPRENEURSHIP DEVELOPMENT
C INDUSTRY	FASHION COMMUNICATION	EXPORT DOCUMENTATION	TEXTILE ECONOMICS
D OTHERS	WORLD COSTUMES	FASHION RETAILING	HOME TEXTILES

Supportive papers offered to other Department students:

Subject Code	Title of the Paper	Instructional Hours/week	Internal	External	Total Marks	Total Credits
GS17	Fashion Concepts	2	12	38	50	2
GS88	Clothing Care	2	12	38	50	2
GS113	Sustainable Fashion	2	12	38	50	2

Eligibility for Admission

A pass in B.Sc – Costume Design and Fashion, Textiles and Apparel Design, Textiles and Fashion Design, Fashion Technology, Textile and Clothing, and any B.Sc degree related to Textiles or Fashion.

Internship Training:

The students who have completed I year of study have to undergo summer training for the period of minimum 15 days. Final reports have to be submitted which will be evaluated.

Industrial Visit

Students have to undertake an Industrial / Institutional visit and have to submit report for evaluation.

Project work

The report is the bonafide work carried out by the candidate under the guidance of a faculty authenticated and countersigned by the HOD. This project work must be presented and defended by the candidate in the Department attended by all faculties and reviewed by external examiner. Candidate who has presented the work as – Not qualified as per CBCS – must resubmit the project again in the ensuing academic year.

Question Paper Pattern:

1. Practical Components:

The M.Sc Textiles and Apparel Design Core Practical Examination having the following Marks:

I

Maximum Marks =100

Internal Marks 40 + External Marks 60 = 100 (Total)

Internal Marks 40

Test –10Marks

Model –10Marks

Record -20Marks

Total = 40 Marks

II

Maximum Marks = 75

Internal Marks 30 + External Marks 45= 75 (Total)

Internal Marks 30

Test –10Marks

Model –10Marks

Record -10Marks

Total = 30 Marks

2. Theory Components:

The M.Sc. Textiles and Apparel Design Core and Elective theory Examination having the following Marks:

Core and Elective Papers:

Maximum Marks – 100

Internal Marks: 25

Test -15 Marks; Assignment - 5 Marks; Seminar - 5 Marks

External Marks: 75

Section A - 10x1=10 Marks (Question No. 1 to 10)

Choose the correct Answer. Answer all questions. All questions carry equal marks.

Section B – 5x5 = 25 Marks (Either or type – Question No. 11 to 15)

Answer all questions. All question carry equal marks. Each answer should not exceed 2 pages.

Section C – 5x8 = 40 Marks (Either or type – Question No. 16 to 20)

Answer all questions. All Question carry equal marks. Each answer should not exceed 4 pages.

SupportivePapers:

Maximum Marks – 50

Internal Marks:12

Test - 6 Marks; Assignment - 3 Marks; Seminar - 3 Marks

External Marks: 38

Section A – 5x1=5 Marks (Question No. 1 to 5)

Choose the correct Answer. Answer all questions. All questions carry equal marks.

Section B – 3x3 = 9 Marks (Either or type – Question No. 6 to 8)

Answer all questions. All Question carry equal marks. Each answer should not exceed 1 page.

Section C – 4x6 = 24 Marks (Either or type – Question No. 9 to 12)

Answer all questions. All Question carry equal marks. Each answer should not exceed 2 pages.

Open Online Courses

This can be availed by the students online and has to be completed before the end of the third semester.

Two credits will be given after successful completion of any course of four weeks duration.

List of Online Courses

S.No.	Course Name	Duration	Credits
1	Designing Learner-Centric MOOC's	4 WEEKS	2
2	Development Research Methods	8 WEEKS	4
3	Introduction to Research	8 WEEKS	4
4	Innovation Business, Models & Entrepreneurship	8 WEEKS	4
5	Role of Craft and Technology in interior Architecture	8 WEEKS	4

Title of the Course: **PAPER –I:Research MethodologyandStatistics** No. of Credits:**4**
No. of
Teachinghours:**4/Week**

Course Objectives:

CO1- Learn and understand some basic concepts and methodologies of research and statistical analysis.

CO 2- Organize scientific investigation to solve problem, test hypotheses, develop or invent new products.

UNIT -I

Meaning of Research - Types of Research - Significance of Research - Research Process. Defining the Research Problem - Sources, Identification, Selection and Statement, Review of related literature.

UNIT-II

Research Design - Meaning, Types of research designs, Basic Principles of experimental designs. Developing a Research Plan related to Textile Industry. Sampling and its Techniques, Steps in sampling design, criteria for selecting a sampling procedure, Characteristics of a good sample design.

UNIT - III

Methods of Data collection - Observation, Questionnaire, Interview. Data Processing- Collection, Classification, Tabulation, Graphical Representation and Data Analysis.

UNIT-IV

Research Report – Format of research report, Main body of the report, References and appendices, Style of writing, Typing the Report, Pagination, Tables and Figures, Evaluating the report. Plagiarismcheck.

UNIT- V

Meaning and scope of statistics, Role of Statistics in research Softwares used for statistical analysis. Measures of central tendency and dispersion. Correlation- Co-efficient of Correlation and its Interpretation, Rank Correlation, Regression equation, Application of Chi-Square test, ANOVA test. (only theory, No problems for exam)

Reference Books (to be specified in the required format)

1. Research Methodology, C R Kothari, K K Gupta, Published by for NewAge International (P)Ltd, NewDelhi,(2004)
2. An Introduction to Statistical Methods, S P Gupta, Vikas Publishing House, NewDelhi, (2009)
3. Introduction to Research in Education, Donald Ary, Lucy Cheser Jacobs , WadsworthPub Co, 8th edition (2009)
4. Research in Education, Best J N, Prentice Hall, Delhi (1979)
5. Statistical method- An introductory text, J. Medho, New age International publishers, NewDelhi(2005)

Course Outcomes:

On successful completion of the course, the students will be able to

CO1 - Know about Research design and concepts and Developing a Research Plan related to Textile Industry.

CO 2- Understand the Role of research Softwares in evaluation.

Course prepared by: Dr.S.GraceAnnapoorani

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PAPER –II:AdvancedTextileScience** No. of Credits: **4**
No. of Teaching hours: **4/week**

CourseObjectives:

CO 1 - Study about natural fiber, artificial fiber. Characteristics and formation

CO 2 – Conversion of Yarn to Fabric by Weaving and Knitting Methods

CO 3 – Non Woven Manufacturing Techniques

UNIT I FIBRE SCIENCE

Textile fibres classification: Natural fibres: Classification of natural textile fibres - Essential and desirable properties of textile fibres - morphological structure, Chemical composition, properties and end uses.

Manmade fibres: History of development, Polymer, Introduction of polyester, nylon, polyolefin, viscose regenerated fibre - Concepts of regeneration of fibre - Raw material for synthetic fibres - Manufacturing sequence of Synthetic fibres.

UNIT II YARN MANUFACTURE

Pre - Cleaning of Cotton: Ginning - Mixing, types of mixing & blending, Blow room, Lap feed, Chute feed systems – Carding.

Preparatory Process: Drawing – Breaker, finisher – Comber preparatory – Sliver lap, ribbon lap, uni lap –simplex.

Yarn manufacturing: Spinning – count – twist – conversion – yarn – classification of yarn – fancy yarns – sewing thread - Conventional and compact system.

UNIT III FABRIC MANUFACTURE

Weaving: Looms - Sequence of material flow – Weave – Draft plan – Peg plan – Loom Types – Primary and Secondary motions – Shuttle looms – Shuttle less looms – Hand loom – Power loom– Projectile loom – Rapier loom – Airjet loom – Waterjet loom – Multiphase loom - Dobby, e- Dobby, Jacquard, e- Jacquard, application of fabrics.

UNIT IV KNITTING

Knitting - Elements of knitting machine - Technology of loop formation - Geometry of loop structure - Relation between yarn count, machine gauge and stitch density. Classification of knit-structures

Warp Knitting - Introduction - Classification of warp knitting – Netting – Types - Lacing – Classification of laces.

UNIT V NON-WOVENS

Concept of Non Woven- Application of non-woven fabrics – Fibre - Characteristics needed for the manufacture of non - woven - Manufacturing passage for the felt preparation - Web characteristics and their influence properties - Process variable and their effect on properties of non woven.

Bonding: Various system of bonding the web and their merits, chemical, thermal, adhesive, mechanical - Flocked fabric - Laminates - latest development in non-woven industry.Mechanical– Needle punching and Spun Lace.

Others: Braiding – Basic braid structures – Crocheting – Tatting- End uses.

REFERENCES:

1. Textile Science, E.P.G. Gohl and L.D. vilensky, 2nd Ed., CB, Publishers, NewDelhi.
2. Technology of spinning, W.D. Klein, TextileInstitute,Manchester.
3. Principles of weaving, Mark and Robinson, TextileinstituteManchester.
4. Textiles fiber to fabric, corbman B.P, InternationalEdn,1983.
5. Mechanism of Weaving, N.N. Banner.J.IVol – I & IITextileInstitute.

Course Outcomes:

On successful completion of the course, the students will be able to gain knowledge about

CO 1 –Natural fiber and its Classifications in detail.

CO 2 –Yarn manufacturing and various methods.

CO 3 –Fabric manufacturing by Weaving, Knitting and Non Woven

Course prepared by: Dr.M.Sumithra

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PAPER –III:Apparel Production Technology**No. of Credits:**4**
No. of Teachinghours:**4/week**

Course Objectives:

CO 1 –Study about the overview of apparel manufacturing industry.

CO 2-Study about apparel production analysis andfinishing.

CO 3 –Study about apparel production planning and control.

UNIT–I

Apparel Manufacturing Industry: Nature and Scope - Types of apparel manufacture problems. Basic types of apparel production process: Make through system, Group system, Whole garment production system, Assembly line system – Progressive bundle system and unit production system. Major function of apparel manufacturing - Engineering and Management functions. Apparel trade associations. Material flow in apparel industry.

UNIT -II

Apparel Production Analysis: Introduction to Garment Cutting, Marker Planning, Efficiency of Marker Planning, Methods of Marker Planning and Marker Use, Spreading of the Fabric to form a lay, Spreading Requirements, Methods of Spreading, Fabric Packages, Objectives of Cutting, and Methods of Cutting.

Seam & Stitch: Introduction to Seam, Stitch, Stitch Classification, Stitch Structure, Seam Formation, Joining Material, Surface Characteristics, Seam Appearance, Damages (Thermal and Mechanical), Seam Performance, Seam Degradation, Seam Failure and Seam Testing. Sewing thread and selection of sewing thread for different fabrics.

UNIT – III

Apparel Finishing: Importance of Garment pressing and finishing, Types of Garments, pressing of Garments and Specialty Garment Finishes.

Quality Checking: Inspection, Interactive bar coding, needle detection.

Packaging and ware housing: Types of packing and packing materials, quality specification, merchandise packing and shipping packing. Intra transport, ware housing, computerized storage systems.

UNIT – IV

Production Control: Definition, objectives of production control, co ordination of production control department with other departments in the manufacturing organizations. Pre production functions – product acceptance, steps from prototype to production model, order requirements.

Work study: Definition, Purpose, Techniques of work study. Procedure of work study. Work study in textile and apparel industries. Time and motion study in apparel industry.

UNIT -V

Plant loading and capacity planning: Determination of machinery requirements for a new factory, calculation of labour requirements, application of line balancing techniques – Balance control.

REFERENCES

1. Apparel Manufacturing Technology, T.Karthick et al, CRC Press, 2016.
2. Industrial Engineering in Apparel Production, V.Ramesh Babu, Elsevier Science & Technology, 2017
3. Garment Manufacturing Technology, Rajkishore Nayak & Rajiv Padhye, Elsevier, 2015.

Course Outcomes:

On successful completion of the course, the students gain knowledge about

CO 1 –The complete functioning of apparel manufacturing industry.

CO 2 – Apparel production analysis and finishing.

CO 3 –Apparel production planning and control.

Course prepared by: Ms.K.Amutha

Course Verified by: Dr.K.Sangeetha

Title of the Course: **Practical I:InnovativeCAD Designing** No. of Credits: **3**
No. of Teaching hours: **5/week**

OBJECTIVES:

- To illustrate the various garment design usingCAD.
 - To Work on individual projects as well as set practical and experimentalexercise.
1. Fashion illustrations by hand for various seasons and occasions (men, women andchildren)
 2. Fashion illustrations using CAD for various seasons and occasions (men, womenand children)
 3. Preparing the specification sheet using CAD forindustrialproduction.

Course prepared by: Ms.M.Jayakumari

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PracticalIII:AdvancedDraping** No. of Credits:**4**
No. of Teaching hours:**5/week**

OBJECTIVES:

- To drape creative designs on thedressform.
 - To convert the draped design intogarment.
 - Draping and Garment construction for men, women and children’s wear with Design Variations (Kimono, Raglan Sleeve Designs, Princess Shapers, Collars, Cowls, Pleats, Flounces,Ruffles).
1. Preparation of fabricforDraping
 2. Draping
 3. Converting or TruingthePattern
 4. PatternDevelopment
 5. ConstructionofGarment
 6. Fitting of final garment ondressform

Course prepared by: Ms.K.Amutha

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PAPER –IV:AdvancedWet Processing** No. of Credits: **4**
No. of Teaching hours: **4/week**

CourseObjectives:

CO 1- Learn about the pre and post dyeing wet processing with recent developments.

CO 2- Learn about dyes and chemicals, printing and finishing

CO3- Learn about the Bio technology and Effluent Treatment plants

UNIT-I

Preparatory Process: Introduction, Fibre – Composition - Typical Sequence of Processes - General Wet Processing Sequence for Cotton, Silk, Wool - Pre-Dyeing preparatory Processing - Desizing Starch - Scouring – Bleaching – Mercerising, Washing, Drying.

UNIT-II

Dyeing– Classification of Dyes - Dyeing Machines, Influence of Physical and Chemical Structure of Fibres on Dyeability - Types of Dyeing Machine, Jet, HT, Beam Dyeing Machine, Padding Mangle, and Jigger - Recent developments in dyeing, Enzymes used for dyeing.

UNIT-III

Printing: Styles of Printing - Methods of Printing, Block, Flat, Rotary Screen, engraved Roller, Transfer, Duplex printing, Pigment Printing, Batik, Khadi - Fixation and After Treatment - Print Paste Formulation.

UNIT-IV

Finishing: Necessity for Finishing – Commercial importance of finishing - Mechanical finishes, heat setting, anti shrink, calendaring - Finishing chemicals – Resin finishing, Flame proof & flame retardancy, Soil Release Finish, Foam Finish, Water proof & Repellent - Micro encapsulation techniques in finishing process.

Enzymes & Proteins – Sources and Applications - Application of enzymes in Textile Chemical Processing - Mechanism of enzyme reactions – Bioscouring - Bio- bleaching, Combined bio - processing, bio washing, bio polishing, Denim fading, anti odour and anti microbial finishes, bio finishing and other applications - Evaluation of enzyme treated fabrics.

UNIT – V

Effluent Treatment Plants: Characteristic of textile effluent, Developments in membrane techniques in the effluent treatment - Energy conservation steps in chemical processing - Low wet pick-up techniques - Causes and remedies for water and air pollution – Bio-Technology in textile effluent treatment plants.

REFERENCES:

1. Trotman,E.R., DyeingandChemicalTechnologyofTextile Fibres,CharlesGriffin& Co. Ltd.,U.K.,1984.2.
2. R.S.Bhagwat, Wet Processing Machineries .MahajanPublications,2000
3. Shenai.V.A,TechnologyofDyeing, Sevak publications, Mumbai, 1995.
4. Miles.L.W.C, TextilePrintingI, SDC,England, 1994,ISBN:0901956570.
5. Manivasakam,N.,-Treatment of Textile ProcessingEffluents,SakthiPublication, Coimbatore,1995
6. DatyeK.VandVaidya.A.A,-ChemicalProcessingofSyntheticFibresandBlends,JohnWiley and Sons, NewYork,1984
7. NCUTE – Programme series, Finishing of Garments and Knits, held at Ichalkaranchi,IIT,Delhi.

Course Outcomes:

On successful completion of the course, the students will be able to understand about

CO 1-Implement the pre and post dyeing wet processing in industry.

CO 2- Apply the types of dyes and chemicals, printing and finishing

CO3- Explore the techniques of Bio technology and Effluent Treatment plants

Course prepared by: Ms.M.Jayakumari

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PAPER –V:TechnicalTextiles**

No. of Credits:**4**

No. of Teachinghours:**4/week**

Course Objectives:

CO 1 - Learn about fibers and methods used for the production of Technical Textiles.

CO 2 –Learn in detail about the classifications of Technical Textiles.

CO 3 –Learn about the application of the Technical Textiles.

UNIT – I

Technical Textiles: Definition, Classification, Applications, Globalisation and Future of Technical Textiles industry. **Technical Fibres:** High – Strength and high-modulus organic fibres, High chemical and combustion - resistant organic fibres, High performance inorganic fibres, Ultra-fine and noveltyfibres.

UNIT –II

Medical Textiles: Introduction, Fibres used, Properties,Classification, Non – Implantable, Implantable, Extra corporal devices, Health care/Hygiene Products and Applications.

Agro Textiles – - Introduction, fibers used Types, functions and properties, Characteristics and Applications in Agro products and in its field

UNIT -III

Build Tech: - Introduction, fibers used Types, functions and properties, Characteristics and Applications in Architecture and in Building Construction.

Geotextiles: - Introduction, fibers used Types, functions and properties, Characteristics and Applications in its field.

UNIT –IV

Protective Textiles: Introduction, fibres used Types, functions and properties, Characteristics and Applications Fire Protective clothing, Heat – resistant garments, Water proof materials, Ballistic resistant Vests, Biological and chemical Vests, Military Protectiveclothing.

InduTech - Introduction, fibers used Types, functions and properties, Characteristics and Applications in its field.

UNIT – V

Sports Textiles: Introduction, fibres used, Types, functions and properties, Characteristics and Applications of Sports Tech.

Smart and Intelligent Textiles – Classification - Active smart, passive smart and very smart textiles and - Phase change materials, shape memory polymers, chromic and conductive Materials and its applications in various fields.

REFERENCES:

1. Sabit Adanur, -Wellington Sears Handbook of Industrial Textiles CRC Press (1995)
2. Dr.S.Grace Annapoorani - Agro Textiles and its Application, Wood head publishing ltd, India (2018)
3. R Senthil Kumar, -Textiles for Industrial Applications CRC Press (2013)
4. A. R. Horrocks and S. C. Anand, Hand book of Technical textiles, Wood head publishing ltd, England (2000)

Course Outcomes:

On successful completion of the course, the students will be able to knowledge about
CO 1 – Know about textile fibers used for technical textiles
CO 2 – Understand the various applications of Technical Textiles.
CO 3 – Known about contribution of technical textiles in various fields.

Course prepared by: Dr.S.Grace Annapoorani

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PAPER –VI: Textile Testing**

No. of Credits: **4**

No. of Teaching hours: **4/week**

Course Objectives:

- CO 1** – Learn about the importance of textile testing and its role in quality control.
- CO 2** - Learn about the testing methods and instruments for testing of textiles.
- CO 3** – Learn about the national and international standards for textile testing.

UNIT I

Introduction to testing - Terminology of testing - Selection of samples for testing: fibre, yarn and fabric sampling. Standard RH and temperature for testing - Measurement of Moisture regain - Conditioning oven & Shirley Moisture meter.

UNIT II

Fiber Testing: Cotton fiber length - Baer Sorter, Fineness Sheffield micronaire, Maturity, Caustic Soda swelling, Strength - Pressley bundle strength tester, Stelometer. HVI, AFIS, Cottonscope. Determination of trash and lint in cotton - Shirley trash analyzer, MDTA4.

Unit III

Yarn Testing: Yarn numbering system - Conversion of count from one system to another - Instruments for count determination - quadrant balance, Beesley balance. Yarn strength testing - Principles of CRT, CRL, CRE – Single yarn strength tester – UT J, UT R, Lea strength tester. Yarn twist – direction of twist, twist multipliers, twist testers - tension type. Yarn Evenness - Classification of variation, methods of measuring evenness, Uster evenness tester- UT 6. Yarn faults classification- Uster Classimat 3 & 5. Yarn hairiness – S3 value, UHL400.

UNIT IV

Fabric Testing: Fabric Parameters – Length, width, crimp, weight, cover factor. Fabric Strength - Fabric tensile strength tester, tearing strength tester, hydraulic bursting strength tester. Fabric Abrasion - Martindale abrasion tester. Fabric Pilling - I C I Pill box tester. Fabric drape – Measurement by Drape meter. Fabric Stiffness - Shirley stiffness tester. Fabric crease resistance and crease recovery - Measurement of crease recovery. Fabric permeability - Shirley air permeability tester, fabric permeability to water, Bundesmann tester, OMMCtest, FTT - Fabric Touch Tester.

UNITV

Garment Testing: Seam strength, Dimensional Stability, Spirality, Peel bond strength. Accessories Testing: Zipper, Buttons, Sewing thread.

Colour Fastness of Textiles - Crocking test, perspiration test, sunlight, laundering, drycleaning, Computer Colour Matching, Colour measurement and Whiteness Index –Spectrophotometer.

REFERENCES:

1. A Practical Guide to Textile Testing, Amutha.K, CRC Press, 2016,
2. Textile Testing, Raul Jewel, APH Publishing Corporation, 2005.
3. Principles of Textile Testing: An Introduction to Physical Methods of Testing Textile Fibres, Yarns and Fabrics, J.E.Books, Butterworths, 1986.

Course Outcomes:

On successful completion of the course, the students gain knowledge about the

CO 1 –Importance of textile testing and its role in quality control.

CO 2-Testing methods and instruments for testing oftextiles.

CO 3 –National and international standards for textiletesting.

Course prepared by: Ms.K.Amutha

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PRACTICALIII:TextileTesting**No. of Credits:**4**

No. of Teachinghours:**5/week**

OBJECTIVES:

- To test the quality parameters of the textiles using suitableinstruments.
- To evaluate the quality based on the testresults.
- To gain practical experience about the quality oftextiles.

Testing and Evaluation of

1. Yarn Count, lea strengthand CSP
2. SingleYarn Strength
3. Twist of yarn
4. Fabric parameters- EPI, PPI, Thickness,GSM
5. Stiffness of fabric
6. Abrasion Resistance of fabric
7. Crease Recovery of fabric
8. Drape of fabric
9. Pilling of fabric
10. Tensile Strength of fabric

11. Tear Strength of fabric
12. Bursting Strength of fabric
13. Colour Fastness to Washing and Crocking of fabric
14. Colour Fastness to Perspiration of fabric
15. Dimensional Stability & Spirality of fabric

Course prepared by: Ms.K.Amutha

Course Verified by: Dr.K.Sangeetha

Title of the Course:**PRACTICAL IV:Advanced Garment Construction**

No. of Credits: **4**

No. of Teaching hours:**5/week**

OBJECTIVES:

- To Study about various garmentconstruction
 - To learn about industry machineadjustment
1. **MACHINE ADJUSTMENTS:** Single Needle Lock Stitch Machine (SNLS) – Select fabrics of different construction and modify the stitches per inch and studytheeffects.
 2. **SPECIALIZED WORK WEAR:** Design and construct uniform clothing for peoplelike Policemen / Army / Navy / Doctors /IndustryWorkers.
 3. **INNER WEAR:** Design and construct innerwear for men / women /children.
 4. **NEED BASED GARMENT:** Design and construct garment for Special people / Bed riddenpatients.
 5. **GARMENT ACCESSORY MAKING:** Design and Construct Gloves / Cap / Socks / Veils / Belt / Bow / Tie / Bags.

Course prepared by: Dr.M.Sumithra

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PAPER –VII:Apparel Quality Standards and Implementation**

No. of Credits:**4**

No. of Teachinghours:**4/week**

Course Objectives:

CO 1 –Study about national and international standards pertaining to textile industry.

CO 2-Study about Eco standards pertaining to fabric and apparel.

CO 3 –Study about quality management of apparel industry.

UNIT I

Quality Standards: Introduction to quality standards, importance, benefits, levels and sources of quality standards. ISO Standards for the Apparel Industry - ISO 9000 &ISO 14000 standards, OEKO Tex 100 standard, Made in Green, STeP, GOTS standards, ANSI standards, Textile Exchange standards, Cradle to Cradle certified standards.

UNIT II

Eco Parameter Testing: Sensitizing dye stuffs, allergic dyes, carcinogenic amines, red-listed chemicals as per Eco specifications. Dry cleaning Agents, Ozone depleting chemicals, pH value, formaldehyde content, heavy metal content, Pesticides and herbicides, azo dye stuffs, Diperse dyes, Nickel, Pentachlorol phenols, colour fasteners, brighteners, softening agents.

UNIT III

Quality Implementation system: SA8000 Standard, 5S, TQM, Lean manufacturing, Six Sigma lean manufacturing. Eco Labelling – Eco Mark. Silk Mark, Wool Mark.

UNIT IV

Inspection in Apparel Industry: Garment defects - cutting defects, sewing defects, assembly defects, pressing, finishing and packaging defects.

Cost of Quality (CoQ) and customer returns; inspection procedures -raw materials, in process, and final inspection. Quality control in final Inspection – AQL: Levels 1.5, 2.5, 4.0, 6.5.

UNIT V

Pollution Control: Hazardous chemicals, 11 flagship chemicals, Substances of very high concern (SVHC), Restricted Substances List (RSL), Manufacturing Restricted Substances List (MRSL).

Zero Liquid Discharge (ZLD), Zero Discharge of Hazardous Chemicals (ZDHC), The Higg Index by Sustainable Apparel Coalition (SAC), Detox Campaign.

REFERENCES:

1. Managing Quality in Apparel Industry, Pradip V Mehta & Sathish K.Bhardwaj, New Age International, 1998.
2. Sustainability in the Textile Industry- Chapter 5 Standards and Certificates, K.Amutha, Springer Publication, 2017.
3. Sustainable Fibres and Textiles – Chapter 12 Sustainable Chemical Management and Zero Discharges, K.Amutha, Woodhead Publishing, 2017.
4. Eco-testing of Apparel Products, K.Amutha, Woodhead Publishing, Green Apparels Chapter 10, 2019.

Course Outcomes:

On successful completion of the course, the students will gain knowledge about

CO 1 – National and international standards pertaining to textile industry.

CO 2 - Eco standards pertaining to fabric and apparel.

CO 3 – Quality management of apparel industry.

Course prepared by: Ms.K.Amutha

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PAPER –VIII :Clothing AppearanceandFit**

No. of Credits:**4**

No. of Teaching hours:**4/week**

Course Objectives:

CO1: Learn about perceptions of body appearance and its relations to clothing,

CO2: Understand the Assessment of clothing appearance and fit, 3D Body scanning, Sizing systems.

CO3: Recognize the need and the ability to understand cosmetic textiles.

UNIT I

Perception of body appearance and its relation to clothing – Introduction – Beauty - Facial attractiveness, body physical attractiveness, body image, modification of body appearance by dressing, fabric properties related to clothing appearance & fit.

UNIT II

Assessment of Clothing Appearance – Introduction - Assessment of fabric surface smoothness, seam appearance, crease retention, appearance retention of finished garments, and reliability of subjective assessment. Objective evaluation of fabric wrinkling, fabric pilling, seam pucker, overall garment appearance.

UNIT III

Assessment of Clothing Fit - Definition of fit - Influences on clothing fit, testing methods for dimensional fit, subject rating scales, subjective fitting guide. **3-d Body Scanning** – Introduction - global development of body scanners, principles and operations of body scanning technologies, bench marking. Challenges of 3D body scanning. Garment drape - measurement of fabric drape

UNIT IV

PERSONAL APPEARANCE AND GROOMING

Cosmetic Textile-Development of cosmetic textiles using microencapsulation technology-air suspension coating-pan coating-emulsion hardening process-cosmetic textile products-advantages and disadvantages.

UNIT V

Human Anthropometrics and Sizing Systems- Terms and definitions - Traditional anthropometry, Historical development of sizing system, Latest national size survey using 3-D body scanner, international sizing, principles of sizing systems. Three-dimensional (3-D) apparel design systems for pattern generation and garment fit, virtual fitting on the internet.

REFERENCES:

1. Fabric Testing, Jinlian Hu, Woodhead, 2008.
2. Functional Textiles for Improved Performance Protection and Health, N.Pan and G.Sun, Woodhead, 2011.
3. Anthropometry Apparel Sizing and Design, Deepti Gupta and Norsaadah Zakaria, Woodhead, 2014.
4. Fashioning Models: Image, Text and Industry, Joanne Entwistle and Elizabeth Wissinger, Bery in an Imprint Bloomsbury, 2012
5. Body Language, Allan Pease, Manjul Publishing House, 2014.
6. Clothing Appearance and FIT Science and Technology, J.Fan, W.Yu and Hunter, Woodhead, 2004.

Course Outcomes:

On successful completion of the course, the students will be able gain knowledge about

CO1: Perceptions of body appearance and its relations to clothing,

CO2:The concepts of assessment of clothing appearance and fit, 3D Body scanning, Sizing systems.

CO3:The principles of cosmetic textiles in textile industry.

Course prepared by: Ms.M.Jayakumari

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PAPER –IX :Eco Textiles and Sustainability** No. of Credits: **4**
No. of Teaching hours: **4/week**

Course Objectives:

- CO 1** – Understand about Eco textiles and its importance.
- CO 2**- Explain the types of Ecology and structure of Eco system.
- CO 3** – Gain knowledge about natural fibers, dyes and finishes.
- CO 4**- Learn about Eco testing and eco standards.

UNIT I

Eco-Textiles - Introduction & needs for eco-textiles & its importance. Ecology - Production ecology, Human ecology & Disposal ecology. Structure and stability of the ecosystem. German ban on toxic dyes, chemicals and auxiliaries. Eco-Auditing and Eco-labelling, Eco mark on textiles.

UNIT II

Natural fibres – Importance of natural fibres in textiles - Major fibres used in textiles - cotton, jute, linen and silk. Minor fibres used in textiles - sisal, pineapple, coir, nettle. Protein - soya, spider silk etc., Extraction or preparation methods of natural fibre-retting, & its methods, decortications by hand and machine. Recent findings of natural fibres in textile industry.

UNIT III

Natural Dyes- History, importance. Types of Natural dyes- plant, animals and minerals- madder, indigo, catechu, myrobalan, pomegranate, lac, alum, Extraction methods & application methods. Mordants, Mordanting types, pre, meta and post mordanting. Characteristics of natural dyed fabrics. Commercially available natural dyes, recent development in Natural dyes.

UNIT IV

Natural Finishes - Need for natural finishes. Traditional plants & herbs used in natural finishing. Various plant Components, extraction methods and application. Recent natural finishes on textiles for various applications.

UNIT V

Eco - Textiles Testing, Standards and Sustainability- Processes adopted for eco-friendliness: Enzyme technology, Foam technology, Super critical carbon-di-oxide dyeing & Plasma technology- Glow-discharge method, Corona discharge method & Dielectric barrier discharge method. Toxicology of textile dyes. Eco testing instruments-working of Gas Chromatography, Mass Spectrometry, High Performance Liquid Chromatography, Atomic Absorption Spectrometry/Atomic Emission Spectrometry and Plasma Emission Spectrometry. Eco Standards for Textile.

REFERENCES:

1. Keith Slater, -Environmental Impact of Textiles, Wood head Pub. Ltd, Cambridge, 2003. ISBN:1-85573-541-5
2. Christie R.M., -Environmental Aspects of Textile Dyeing, Woodhead Pub. Ltd, Cambridge, 2007. ISBN:978-1-84569-115-8
3. Miraf tab M. And Horrocks R., -Eco Textiles, Wood head Pub. Ltd, Cambridge, 2007. ISBN-13:9781-84569-214-8
4. Eco-Textiles_98, Bolton Institute, Bolton, 1998.
5. Eco-Textiles, Special Report, The Bombay Textile Research Association, Mumbai, February, 1996.

6. Eco Friendly Textiles: Challenges to the Textile Industry, Textiles Committee, Mumbai, 1996.
7. Oeko-tex Standard 100, International Association for Research and Testing in the field of Textile Ecology (Oeko-tex), Zurich, Switzerland, January, 1997.
8. BIO-textiles as medical implants, M W King, B S Gupta, R Guidoin.
9. The Applications of Biotextiles in Tissue Engineering Ruwan Sumanasinghe and Martin W. King
10. Blackburn R.S.,—Biodegradable and Sustainable Fibres, Woodhead Pub. Ltd, Cambridge, 2005. ISBN: 0-84933-484-5.

Course Outcomes:

On successful completion of the course, the students will be able to

CO 1 – Understand the importance of Ecology and Structure of Eco system

CO 2 - Apply various techniques to extract the natural fibres for making eco textiles.

CO 3 – Extract and apply natural dyes and finishes for eco textiles.

CO 4 - Gain knowledge on Eco testing and Eco standards.

Course prepared by: Dr.K.Sangeetha

Course Verified by: Dr.K.Sangeetha

Title of the Course: PRACTICAL V: Surface Enrichment on Textiles No. of Credits: **3**

No. of Teaching hours: **5/week**

OBJECTIVES:

- To design products for printing, painting, dyeing, texture, smocking, ribbon work etc.

1. Printing – a) Screen, Block, b) Spray, Stencil
2. Fabric Painting
3. Dyeing - resist & discharge - a) Tie & dye b) batik.
4. Texture printing by combining any three different types of textures.
5. Smocking with different techniques.
6. Designing and making of any three traditional embroideries.
7. Ribbon work, Applique work, Mirror work, Beed work and Sequence work on textiles.
8. Collection of samples for traditional Textiles – Bandhani, Patola, Ikat, Pochampalli.
9. Adaptation of traditional designs from craft items and modifying as per modern trends.
10. Collage work for textile designs

Course prepared by: Dr.M.Sumithra

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PRACTICAL VI: Portfolio Presentation** No. of Credits: **4**
No. of Teaching hours: **5/week**

OBJECTIVES:

- To develop portfolio with sketches, Concept, MoodBoards.

Portfolio Presentation for any 4 Theme with the following components

1. Name Board
2. Designer Profile
3. Customer Profile
4. Mood Board
5. Inspiration Board
6. Flat Presentation – 5 (front & back)
7. Colour Board
8. Fabric Board
9. Design Development / Story Board
10. Accessory Board
11. Photographic Board
12. Garment Construction Board

Course prepared by: Dr.S.GraceAnnapoorani

Course Verified by: Dr.K.Sangeetha

Title of the Course: **PRACTICAL VII: CAD in Textile Designing** No. of Credits: **4**
No. of Teaching hours: **6/week**

OBJECTIVES:

- To learn about doobby, Jac draw, Jac weave, print tex, 3D studiossoftwares.
 - To Work on individual projects as well as set practical and experimentalexercise.
1. Pattern layout and marker efficiency usingspecificationsheet
 2. Designing fabricsfor Plain Weave, Rib, Twill Weave, Satin, Sateen, Dobby and JacquardWeave

Course prepared by: Ms.M.Jayakumari

Course Verified by: Dr.K.Sangeetha

Title of the Course:**Supportive paper: Fashion Concepts**

No. of Credits:**2**

No. of Teaching hours: **2/week**

Course Objectives:

CO 1- Understand and adapt the ethics of fashion

CO 2- Design and apply the fashion techniques

CO 3- Understand the colour harmony in fashion design

UNIT -1

Definition –Fashion, style, fashion and classic. Color chart-Prang colour chart, Value chart and Intensity chart

UNIT-2

Illustrate garment designs for the Elements of Design –Line, Colour, Texture, Shape or Form and Size

UNIT-3

Illustrate garment designs for the Principles of Design - Balance in dress, Harmony in dress, Emphasis in dress, Proportion in dress and Rhythm in dress

UNIT-4

Illustrate the Colour Harmony in Dress Design -Monochromatic colour harmony, Analogous colour harmony, Complimentary colour harmony, Double Complimentary colour harmony, Split Complimentary colour harmony and Triad colour harmony

UNIT-5

Application of colour and Principles of design in dress - Harmony through colour, Emphasis through colour, Proportion through colour, Rhythm through colour and Balance through colour.

Reference Books (to be specified in the required format)

1. Elements of Fashion and Apparel Design By, G. J. Sumathi, New Age International, 2007
2. Art in everyday life by-harriet Goldstein, 2007, Macmillan,
3. Fashion design, the art of style by Jen Jones, Capstone, 2007

Course Outcomes:

On successful completion of the course, the students will be able to

CO 1- Adapt and exhibit the ethics of fashion

CO 2- Apply the fashion and designing techniques

CO 3- Manifest the colour harmony in fashion design

Course prepared by: Ms.M.Jayakumari

Course Verified by: Dr.K.Sangeetha

Title of the Course: **Supportive paper:ClothingCare**

No. of Credits: **2**

No. of Teaching hours: **2/week**

CourseObjectives:

CO 1 –Learn about classification of Textile Fibers and their characteristics.

CO 2- Different types of washing care for the various materials.

CO 3- Requirement for the care labeling.

UNIT I

Textile Fibres: Introduction, Classification, General care of different fibres – Cotton, linen, wool, silk, nylon, polyester, acrylics, rayon, acetate.

UNIT II

Wardrobe - Definition and wardrobe planning. **ClothingSelection-** Factors to be considered for clothingselection.

UNIT III

Laundering: Water, detergents, laundry equipments – Household and commercial, laundry procedure for various fibre fabrics – Cotton and linen, woollens, silk and synthetics.

Dry Cleaning: Definition, dry-cleaning operations and materials.

UNIT IV

Stain Removal: Identification and classification of stains, general procedures of stain removal, principles of stain removal, classification of stain removers.

UNIT V

Care Labels: Various systems of care labelling, washing, bleaching, drying, ironing, and dry-cleaning instructions. Placement of labels on garments.

Reference Books (to be specified in the required format)

1. **Clothing Care Manual**, Isabel MakwaraMupfumira, NyaradzoJinga, Strategic Book Publishing RightsAgency,2014
2. **Fabric Care**, D. Noemia Souza, New AgeInternational,1998

Course Outcomes:

On successful completion of the course, the students will be able to

CO 1 –Knowabout Textile Fibers and their characteristics.

CO 2-Understand about stain removal and its techniques

CO 3-Know about care Labeling and its uses

Course prepared by: Dr.M.Sumithra

Course Verified by: Dr.K.Sangeetha

Title of the Course:**Supportivepaper:SustainableFashion** No. of Credits: **2** No. of
Teaching hours: **2/week**

CourseObjectives:

CO 1 –Learn about sustainability of Fashion industry.

CO 2-Learn about ethical fashion.

CO 3-Learn about Eco textiles and Eco friendly fashion labels.

UNIT I

Introduction: Fashion, Sustainability, Pillars of sustainability, Sustainable fashion – meaning and importance.

UNIT II

Clothing lifecycle, clothing care, fast and slow fashion, clothes repair and re-use.

UNIT III

Ethical fashion: concepts of recycling and upcycling. Carbon footprint, water footprint and energy consumption of fashion industry.

UNIT IV

Eco-textiles, green consumerism and waste reduction, consumer responsibility towards sustainable fashion.

UNIT V

Sustainable fashion designers, sustainable fashion brands, Eco-friendly fashion labels.

Reference Books

1. Black, S. (2013). Sustainable Fashion Handbook, London, ThamesandHudson.
2. Brown, S. (2013). Re-Fashioned- Cutting Edge Clothing from UpcycledMaterials, London,LawrenceKingPublishing.
3. Fletcher, K. (2012). Fashion and Sustainability- Design for Change, London, LawrenceKingPublishing.
4. Yamase, K. (2012). Cut up Couture- Edgy Upcycled Garments to Sew, U.S.A. Interweave.
5. Fletcher, K. (2008). Sustainable Fashion and Textiles- A Design Journey, London, LawrenceKingPublishing.
6. Phillips, J. (2013). Sustainable Luxe- A Guide to Feel Good Fashion, London, CreateSpacePublishing.

Course Outcomes:

On successful completion of the course, the students will be able to gain knowledge

CO 1 –Sustainability of Fashion industry.

CO 2-Ethical fashion.

CO 3-Ecotextiles and Eco friendly fashion labels.

Course prepared by: Ms.K.Amutha

Course Verified by: Dr.K.Sangeetha

Title of the Course: **Elective I :Fashion Concepts and Designing** No. of Credits: **4**
No. of Teaching hours:**4/week**

Course Objectives:

CO1: Apply knowledge of designs effectively

CO2: Implement the learned concepts as a designer

CO3: Study about the colouring & texture for fashionable design.

UNIT - I

Elements Of Design: - Basic Elements - Designing of costumes using elements of design - line, dot, curves, texture, shine, rough, silhouettes, color - Define Application of Principles: Balance, rhythm, harmony, repetition, grading, unity, symmetry.

UNIT - II

Colour Theory:- Color Theory: Color wheel - primary, secondary, transparency - Techniques of color mixing - Color Contrast and Attributes: interaction, harmony, psychology, mood, culture and expression - Composition: Color, space, movement, balance, asymmetry, rhythm, shapes, proportion - Aspects / temperature of color-warm cool, hot, cold, dark, pale and bright - Application of Principles in garment Designing for latest trends - Dimensions of color- hue, Intensity, value, chroma - Basic color schemes- achromatic, analogues, monochromatic, complimentary, and neutral - Rendering techniques.

UNIT - III

Textures and Design: - Personal appearance and fit - Textures-types of textures - Textural effects, using textures in designs – Color and texture of the fabric. Design feature, Personal appearance and fit for different figure types.

UNIT – IV

An overview on Indian and global Fashion designers

Understanding Fashion designer – types – classicist, idealist, influenced, realist and thinking poet. Indian Fashion designers– Haute couture – Manish Malhotra, Wendell Rodricks, AbuJani and Sandeep Khosla, TarunTahiliani, JJ Valaya, Rina Dhaka, Manish Arora , RohitBal, RituBeri, Ritu Kumar , Omi Gurung, Shilpa Reddy, VikramPhadnis, Neeta Lulla, Erum Ali, Payal Jain.

Global Fashion designers - France, Italy, America, Britain, Fareast- Contributions of well known designers from France-Agnes,SophieAlbou Italy- Pierre Cardin,Roberto Cavalli America - AdamsAdrian,JosephAbboud. Britain -Basso & Brooke and Fareast Countries - Sandy Powell, ValentinoGaravani.

UNIT – V

To develop wardrobe collection for different seasons and design costumes for different themes.

Reference Books (to be specified in the required format)

1. FashionDesignByJaniceG.Ellinwood.
2. FashionRenderingwith Color ByBinaAbling.
3. Fashion Color Harmony ByHibeaki,PublisherRockford.

4. The Art of Costume and Personal Appearance by Grace Margaret Morton.
5. Individuality in Clothing Selection and Personal Appearance Hardcover – Import, 11 Jun 1999 by Suzanne Marshall, Hazel Jackson, M. Sue Stanley Ph.D., Mary Kefgen, Phyllis Touchie-Specht Fashion – From concept to consumer – Gini Stephens Frings, 6th edition, Prentice Hall (1999).

Course Outcomes:

On successful completion of the course, the students will be able to

CO1: Apply design concepts and techniques effectively

CO2: Implement the design concepts in dress designing

CO3: Explore the colouring & texture for designing.

Course prepared by: Ms.M.Jayakumari

Course Verified by: Dr.K.Sangeetha

Title of the Course: **Elective I :Apparel Marketing and Merchandising** No. of Credits: **4**
No. of Teaching hours:**4/week**

Course Objectives:

CO 1 - Learn about Buying Behavior and Marketing Techniques

CO 2- Difference between Marketing and Merchandising

CO 3 – Learn about Market Research and Garment Costing

UNIT I

Marketing- Marketing Concepts, Marketing Management, Marketing System, Marketing environment, Marketing Organisation, Strategic Marketing Process, Competitive marketing strategy - Marketing of Apparel and Fashion Products.

UNIT II

Buying Behaviour- Factors influencing buying behaviour - Buying process segmentation: Market segmentation - Segmentation Variables - Target Marketing market measurement- Market Potential - Estimation - Demand Forecasting - Methods of forecasting.

UNIT III

Marketing Mix - Product, Price - Promotion and Distribution - Advertising and Sales Promotion – Public Relations - Case study.

Product Life Cycle - Life cycle of product - Marketing strategy for various stages of life cycle - New product development - Case study.

Marketing Research: Purpose, Procedure and Applications - Theories in Market Research – Trickle - up, Trickle – down and other theories - Case Study.

UNIT IV

Merchandising - Merchandise – definition - Apparel and Fashion Merchandising - Role of Merchandiser – Types of Merchandises - Export House, Manufacturer, Buying House, Buying Agency and Comparison between them - Selection of Buyers and Buying Agencies - Merchandising Correspondence - Orders, handling of orders and dealing with manufacturers - Advertising - Trade fair participation and other methods of sales promotion in merchandising.

UNIT V

Garment Costing – Introduction - Terms and purposes, Cost terminology, direct and indirect costs, Cost behavior patterns: variable costs & fixed costs, total costs and unit costs - pricing decisions and cost management, target costs. Process optimization, quality improvement and cost reduction techniques — Methodology for spinning, weaving, knitting, chemical processing, garment making - Case Studies. Export Cost - Basic T-shirt, Ladies night wear, Pyjama, striped T-shirts, etc.

Reference Books (to be specified in the required format)

1. Philip Kotler, *Marketing Management*, PrinticeHallnc1996
2. Taarno,Guerreiro&Judelle-*Inside thefashion business*1995
3. *Clothing Retailing in Europe*, Corporate intelligenceonretailing,1997
4. *The Textile Industry,Winningstrategiesforthenew millineum*, volume 2,TextileInstitute., 1999.
5. Evelyn C. Moose,WeyII.-*Path ForMerchandising*1999. Jarnow.J&Dickerson.K.G,
6. *Inside theFashion Busines*, PrenciticeHall,1997.

Course Outcomes:

On successful completion of the course, the students will be able to gain knowledge

CO 1 –About textile marketing and their Strategies

CO 2- About merchandising and Market research in Textile industry

CO 3 – About Garment costing

Course prepared by: Dr.M.Sumithra

Course Verified by: Dr.K.Sangeetha

Title of the Course: **Elective I: Fashion Communication**

No. of Credits: **4**

No. of Teaching hours: **4/week**

Course Objectives:

CO1 - Develop skills to communicate fashion

CO2 –Obtain ability to design their own concepts

CO3 - Ability to present the visual communication

UNIT – 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 differentmedia.

UNIT –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 – III

Visual Communication: Fashion photography, windowdisplayand multimedia – audio, still images, animation, video footage andinteractivity.

UNIT – IV

Communication: Communication in practice,Scripting shows, conducting interviews, reporting events, fashion critics, planning PR campaigns, formulating case studies, designing cataloves and brochures.Visualization of décor and ambience, preparing short films/audiovisuals, choreography of fashionevent.

UNIT – V

Designing of own fashion magazines/ Designing of own fashion brochures by the students/
designing a look book/designing a line planning.

Reference Books (to be specified in the required format)

1. Farbey, A.D.: How to Produce Successful Advertising, Kogan Page IndiaPvt.Ltd.
2. Jethwaney, J.N. (1999): Advertising, Phoenix Publishing HousePvt.Ltd.
3. Roundy, N. and Mair, D. (1985): Strategies for Technical Communication, Little Brownand Company,Boston,Toranto.

Course Outcomes:

On successful completion of the course, the students will be able to

CO1 - Implement developed skills to communicate fashion.

CO2 –Design based on their own concepts

CO3 -Implement the techniques of visual communication

Course prepared by: Ms.M.Jayakumari

Course Verified by: Dr.K.Sangeetha

Title of the Course: **Elective I:World Costumes**

No. of Credits:**4**

No. of Teaching hours:**4/week**

Course Objectives:

CO 1- Learn about world costumes in detail for American, European and Far Eastern Countries

CO 2 –Learn about the dyed and Printed Textiles of India

CO 3 - Learn about the Traditional Costumes of India

UNIT I

America -Inuits and Aleuts, American Indians of the southwest, American Indians of Plains and northwest, Amish costumes, Guatemala, Mexico, Colombia, Peru and Bolivia, Chile and Brazil.

UNIT II

European countries - Egypt, Greece, Roman, Norway, Sweden, Denmark, Scotland, Austria, Switzerland, Hungary, Poland, Ukraine

UNIT III

Far Eastern Countries - Mongolia, China, Japan, North and South Korea, Sri Lanka, Pakistan,

Burma, Thailand, Philippines, Africa- Costumes of North, East, West and South, Middle East Countries Turkey and Iran, Costumes of Arab Peninsula.

UNIT IV

Study of dyed and printed textiles of India – Bhandhini, Patola, Ikkat, Kalamkari. Study of women textiles – Banarasi muslin, Banarasi, Silk sarees of Kanchipuram, Kashmir shawls.

UNIT V

Traditional Costumes of India

South India - Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, West India - Maharashtra, Gujarat, Madhyapradesh, East India - Orrisa, Bihar, Mizoram, Tirupura, Nagaland, West Beengal, , Assam, Sikkim.

North India - Rajasthan, Haryana, Punjab, Himachal Pradesh, Uttarpradesh, Jammu and Kashmir.

Reference Books

1. Costumes of Indian and Pakistan, Das S N, D B Taraporevala Sons & Co, Bombay(1958)
2. Historic Costume, Chas A, 'Bernard and Co, illinois (1961)
3. Costume through the Ages, Laver, James Simon and Schuster, New York(1968).
4. Costumes throughout the Ages, Eoan C C, JBLimancott
5. The History of Costume; Kemper, Rachel H
6. Indian Costume –G.H Ghosrye, Popular books Pvt Ltd
7. The costumes and textiles and India – Jamila Brij Bhushan, D B Taraporevala Sons & Co, Bombay(1958)
8. Costumes of India –Dorris Flynn, Oxford & IBH Publishing Co, Delhi(1971).

Course Outcomes:

On successful completion of the course, the students will be able understand about

CO 1- Costumes of various countries

CO 2 –The traditional method of dyeing and printing the fabrics

CO 3 - The Traditional Costumes of India

Course prepared by: Dr.S.Grace Annapoorani

Course Verified by: Dr.K.Sangeetha

Title of the Course: **Elective II: Social and Psychological Aspects of Clothing**

No. of Credits: **4**

No. of Teaching hours: **4/week**

Course Objectives:

CO 1 – Learn about the origin of clothing.

CO 2- Study the clothing comfort and factors.

CO 3 – Gain knowledge on garment fit and comfort.

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

Psycho- physiological factors of clothing comfort - Psychophysics and clothing comfort - Wear trial techniques - Psychological aspects of aesthetic comfort.

UNIT – III

Thermal transmission – Introduction - Thermo- regulations in human body - Thermal distress - Thermoregulation through clothing system - Thermal comfort of clothing - Transient heat flow and warm- cool touch of fabrics - Measurement of thermal transmission characteristics - Parameters for expressing thermal characteristics - Thermal transmission characteristics of fabrics

UNIT - IV

Relation between clothing and the wearer - Personality and self concept - Motivation in clothing choices - Individual values, interests and attitudes related to clothing - Behavior and clothing choices, practices and effect and clothing on the individual - Clothing and Society - Clothing and social behavior - Clothing influenced by religion and culture - Clothes and conformity - Clothes and occupation - Uniforms in schools and college - Clothes and colour and impact of colour.

UNIT – V

Garment fit and comfort - Introduction - Body dimensions and pattern - Garment fit and comfort relationship - Factors related to garment fit - Measurement of garment fit

Reference Books

1. Apurba Das and R. Alagirusamy (2010): Science in Clothing Comfort
2. Avis, M. Dry (1961): The Psychology of Jung, Methuen&Co., London.
3. Horn, Marilyu J. (1968): The Second Skin, HoughtonMifflinCo., USA.
4. Flugel, J.C. (1950): The psycho – analytical study of the family, The Hograth Press &The Institute of Psycho Analysis, London.
5. Richard Wollhein (1985): Frennd, FontanaPress, London.

Course Outcomes:

On successful completion of the course, the students will be able to

CO 1 – Learn about the origin of clothing.

CO 2-Design garments with clothing comfort factors for various purposes.

CO 3 -Design garments with suitable and appealing fit.

Course prepared by: Dr.K.Sangeetha

Course Verified by: Dr.K.Sangeetha

Title of the Course: **Elective II: Visual Merchandising**

No. of Credits: **4**

No. of Teaching hours: **4/week**

Course Objectives:

CO 1 – Learn about the techniques followed in display settings

CO 2- Study the planning of merchandising

CO 3 – Gain knowledge about display techniques

UNIT I

Introduction –Color and Texture, Line and Composition light and Lighting, Understanding lighting patterns. Role of lighting in visual merchandising, Colours and types of lightings.

UNIT II

Visual merchandising and planning – Visual Merchandising and Planning, Setting up a display shop, Store planning and design, Visual merchandising and the changing face of Retail.

UNIT –III

Display and Display Settings - Types of display, one – item, line of goods, related merchandise, assortment, promotional vs. institutional; Type of display settings - Realistic, environmental, semi-realistic, fantasy, abstract. Store and window settings - Exterior of the store, signs, marquees, outdoor lightning, banners, planters, awning; Window in store front - The angled front, the arcade front, the corner, display, closed back, open-back, island, shadow boxes, elevated, deep, tail. Music - Selection of music. Advantages & disadvantages of using music.

UNIT IV

Mannequin - Types of mannequins - realistic, semi realistic, abstract, semi abstract, headless; dressing up of mannequin. Alternatives to the mannequin, Dressing the three dimensional form. **Fixtures:** Fixtures, Visual merchandising dressing fixtures, Modular fixtures and system in store planning. Furniture as Props

UNIT V

Visual Merchandising and Display Technique – Attention – Getting devices, Familiar symbols, Mashing and Proscenia sale ideas, Fashion accessories, Graphics and signage, Fashion shows, Career opportunities in Visual merchandising.

References Books:

- 1 Martin M.Pegler, –Visual Merchandising and Display, fifth edition, Berg Publishers, UK, 2006.
- 2 Lainestone, Jean Samples, –Fashion Merchandising– An Introduction, McGraw Hill Book Co, 2001.
- 3 Diamond, J, –Fashion Retailing– A Multi-Channel Approach, Second Edition, Prentice Hall, New Jersey, 2000.
- 4 Fashion Merchandising & Information, John Wiley & Sons, PRISCO, Australia Ltd (1986)
- 5 Fashion Merchandising, Mery. D. Troxell, Elaine Store Gregg division, McGraw-Hill (1981)
- 6 Fashion Merchandising Introduction Evelyn Grace, –Prentice-Hall (1978)
- 7 Visual Merchandising, Hearst books, ST publications incorporated (1997)
- 8 The business of fashion inside outside Kitty Dickerson

Course Outcomes:

On successful completion of the course, the students will be able to

CO 1 – Know about the new techniques of the display setting

CO 2–Know visual merchandising and planning

CO 3-Study the store planning

Course prepared by: Dr.M.Sumithra

Course Verified by: Dr.K.Sangeetha

Title of the Course:**Elective II:ExportDocumentation**

No. of Credits: **4**

No. of Teaching hours: **4/week**

CourseObjectives:

CO 1 - Study about international trade and trade policies.

CO 2-Study about export and import procedures and documentation.

CO 3 – Indian garment trade policies on export- details of special incentives.

UNIT- I Introduction to international trade, Global scene, Prospects for Indian Apparel in overseas market, Globalisation, GATT and WTO. Meaning and Definition of Export – Classification – Strategy and Preparation for Export Marketing – Export Marketing Organizations – Registration Formalities – IEC – RCMC – Export Licensing – Selection of Export Product – Identification of Markets – Methods of Exporting – PricingQuotations.

UNIT- II Foreign trade document -need - types of documents related to goods, invoice to goods, invoice packing note and list - certificate relating to shipments - shipping bill- cart ticket - certificate of measurement - Bill of lading - airway bill - documents related to payment -letter of credit - bill of exchange - bank certificate for payment - document related to inspection.

UNIT- III Steps in Export Procedure – Export Contract – Forward Cover – Export Finance – Institutional framework for Export Finance – Excise Clearance – Pre-shipment Inspection – Methods of Pre-shipment Inspection – Marine Insurance – Role of Clearing and Forwarding Agents – Shipping and Customs Formalities – Customs EDI System – Negotiation of Documents Realisation of Exports Proceeds. Recent export policies of thegovernment

UNIT –IV

Foreign Trade Policy – Highlights – Special Focus Initiatives – Duty Drawback – Deemed Exports – ASIDE – MAI & MDA – Star Export Houses – Town of Export Excellence – EPCG Scheme – Incentives for Exporters. Preferential trade agreements-GSP, IJCEPA, IKCEPA. Export Promotion Councils-Commodity Boards – FIEO – IIFT – EOUs – SEZs – ITPO – ECGC-EXIMBank.

UNIT- V

Aligned Documentation System – Commercial Invoice – Shipping Bill – Certificate of Origin – Consular Invoice – Mate’s Receipt – Bill of Lading – GR Form – Types of Marine Insurance Policies. Customs - meaning, definition, types, exercise and customs, clearance of export cargo shipment of goods and port procedures - claiming duty draw backs and other benefits

Reference Books

1. Handbook of Import-Export Procedures – Ministry of Commerce, -, Government of India, NewDelhi
2. Export: What, Where and How, Paras Ram,AnupamPublishers,Delhi
3. Exports : Do it Yourself, Mahajan M.I., Snow White Publications,NewDelhi
4. Export Marketing, TAS Balagopal , HimalayaPublishingHouse
5. Export Documentation and Procedures, , Nabhi Publications, NewDelhi
6. International Marketing Management, R.L. Varshney,SultanChand
7. International Marketing, Terpstra,HoltSaunders
8. International Business, Concept, Environment and Strategy,SharanV
9. Export Management, D.C. Kapoor,VikasPublishingHouse
10. Govt. of India: Hand book of import and export procedures Bose. A, Streamline yourexpert paper work, International trade form Oct - Dec1965

Course Outcomes:

On successful completion of the course, the students will be able to

CO 1 –Know about international trade and trade policies.

CO 2- study about export and import procedures and documentation.

CO 3 – Indian garment trade policies on export- details of special incentives.

Course prepared by: K.Amutha

Course Verified by: Dr.K.Sangeetha

Title of the Course: **ElectiveII:Fashion Retailing**

No. of Credits: **4**

No. of Teaching hours: **4/week**

CourseObjectives:

CO1- Learn about merchandising history and methods,

CO 2- Understand about branding and brand merchandising

CO3- Develop merchandising and leadership skills to excel in their profession

Unit –I

Retail Merchandising - The Marketing Channel, Retail organization structures, retail merchandising , Retailing Formats - Department stores specialty stores , hard – to – classify stores, Depth and breadth, discounting , Other Retailing Formats – non store retailers.

Unit –II

Retail Locations – Unplanned shopping districts, planned shopping centers, the mix of stores in a shopping center. Retail growth and expansion – Retail ownership. International Retailing, Retailing Advertising.

Unit –III

Brands and private labels - Branded Merchandising, Licensing, Private Labels, and Private Labels as Brands. Merchandise Resources – Manufacturers, Merchant Wholesale – Distributors. TradeShows.

Unit –IV

The financial aspects of Merchandising – Measures of Productivity – Productivity, turnover, Stock - to – sales Ratio, sales per Square foot, Space Management. Retail pricing - Mark-up. Markdowns, Residue merchandise, maintain Mark-up. Tactical price changes, Managing Markdowns, Promotional Pricing, Deceptive pricing, Resale price Maintenance.

Unit –V

Store Layout and Merchandise Presentation – Store Planning and Design, Visual Merchandising, Store Layout, Fixtures, Merchandise Presentation, signs.

Reference Books

1. Merchandise Buying and Management, John Donnellan Fairchild Publications ,New York1996
2. Retailing: A Multi-Channel Approach ,Ellen Diamond, Prentice Hall2nd Edition,2005

Course Outcomes:

On successful completion of the course, the students will be able to

CO1- Explore methods and merchandising history

CO 2- Understand about branding and brand merchandising

CO3- Implement the developed merchandising and leadership skills to excel in their profession

Course prepared by: M.Jayakumari

Course Verified by: Dr.K.Sangeetha

S

Title of the Course:**Elective III:Clothing Care and Maintenance**

No. of Credits: **4**

No. of Teaching hours: **4/week**

CourseObjectives:

CO 1 – Know about the water types and purification.

CO 2- To learn about the maintenance of clothing and stain removal.

CO 3 – Understand the care labels and packing

UNIT – I

Water- types- soft water-hard water- purification of water. Soaps, detergents – types – manufacturing – properties.

UNIT-II

Laundering – objects – methods - laundering of white - coloured, cotton, silk, wool, synthetic fabrics, lace materials, carpets. Clothing storing- mending - darning- seasonal care.

UNIT-III

Dry cleaning - chemicals used - sequence - method - commercial dry cleaning. Washing machines – types - working principles.

UNIT-IV

Ironing and pressing - hot air, steam, permanent pressing, tumble drier –hydro extractor - working principle.

UNIT-V

Stain - classification – removal of known and unknown stains - rules in removing fresh and old stains. Stain removers - grease solvents – absorbents - washing soda - borax.
Care labels – importance- symbols – uses. Packing – importance – care of import & export packing.

REFERENCES

1. Fabric care-Noemia.D.Souza, Published by New Age International (P) Limited, 2014.
2. Fundamentals of textiles and their care-Susheela.Dantyagi, 2012.
3. House hold textiles and laundrywork-Durga.Deulkar, 2011
4. Textiles fiber to fabric- Bernard.P.Carbman, MC Graw Gill International Edition, 1983.

Course Outcomes:

On successful completion of the course, the students will be able to

CO 1 – Gain knowledge about clothing care

CO 2- Know about various process in maintenance of clothing

CO 3 – Study about the packing sector in textile industry

Course prepared by: Dr.K.Sangeetha

Course Verified by: Dr.K.Sangeetha

Title of the Course: **Elective III:Entrepreneurship Development**No. of Credits: **4**

No. of Teaching hours:**4/week**

Course Objectives:

CO 1 –Study about Entrepreneur Skills.

CO 2-Study about project formulation and classification of Industries

CO 3 – Funding agencies and entrepreneur regulations.

UNIT-I

Definition of Entrepreneur – Functions of entrepreneurship - Types and problems. Recent trends and development in entrepreneurship. Characteristics of an entrepreneur, Entrepreneurship development, Process of Entrepreneurship development.

UNIT-II

Project identification - Classification. Project formulation - Feasibility analysis and report. Selection. Project appraisal – Concepts and Methods - Cash flows, Payback period, ROI
Methods of minimizing risk.

UNIT-III

Steps for starting a small scale enterprise. Preparation of Project report and Business plan. Procedure and formalities for registration, Types of organization – Sole proprietorship. Partnership. Joint stock company, Selection of types of Organization, Factors influencing the choice of organization.

UNIT-IV

Factors influencing entrepreneurship, Institutional finance to entrepreneurs - Commercial Banks. Other financial Institutions - IDBI, IFCI, ICICI, IRBI, LIC, UTI, SIDC, SIDBI, EXIM Bank, Role of Government in entrepreneurship development.

UNIT-V

Institutional support to entrepreneurs - Need for support - NSIC, SIDO, SSIDC, SISI, SFC, DIC, TCO, TIIC, Kadhi and Village Industries Commission, Industrial Estates. Issues of prospects of entrepreneurship in India, Global entrepreneurship, Trends in entrepreneurial enterprises-TQM, WTO, Green products, Research and Innovating etc., Entrepreneurship in Textile Industry, Textile and MSME.

Reference Books (to be specified in the required format)

1. Entrepreneurship development, C.B. Gupta & N.P. Srinivasan, Sultan Chand & Sons (1992)
2. Entrepreneurship development, S. Khanka, S.Chand limited (2006)

Course Outcomes:

On successful completion of the course, the students will be able to understand about

CO 1 – Functions of entrepreneurship and problems faced by entrepreneur

CO 2 – Classification of Industries and its formation

CO 3 – Institutional support to entrepreneurs from various funding agencies

Course prepared by: Dr.M.Sumithra

Course Verified by: Dr.K.Sangeetha

Title of the Course: **Elective III: Textile Economics**

No. of Credits: **4**

No. of Teaching hours: **4/week**

Course Objectives:

CO 1 – Study about origin, growth and development of textile industry.

CO 2 – Learn about Government plans for technological developments in fiber and spinning industry.

CO 3 – Technical developments in fabric manufacturing and finishing industries.

UNIT I

Origin, Growth and Development of Indian Textile Industry - Cotton, Wool, Silk – Rayon, nylon, polyester, acrylic, Man-Made Textiles, Readymade garments

UNIT II

Five year plans for the textile Industry - Recent plan and previous 5 Five year plans- Organisations related to the Textile and clothing Industry - Concept of GATT, MFA, WTO, AIC, Globalization

UNIT III

Technological developments in Fibre Industry, Significance and uses – Technological developments in Yam Industry, significance and uses.

UNIT – IV

Technological developments in Fabric Industry -woven, significance and uses - Technological developments in Fabric Industry - knitting, significance and uses - Technological developments in Garment Industry, significance and uses

UNIT V

Technological developments in Printing and Dyeing Industry, significance and use - Technological developments in Processing Industry, significance and uses.

Reference Books (to be specified in the required format)

1. Textiles - Fiber to fabric, Bernard P Corbman, 6th edition, McGraw HillBookCo,Singapore
2. Fabric forming systems, Peter Schwartz, Trevor Rhodes, Mansour Mohammed,Noyes' Publications, New Jersey,USA(1996).
3. Fabric Care, Normia D'Souza, New Age International Pvt Ltd, New DelhiJournals:
4. Indian Textile Journal- Business Press P. Ltd, Maker Tower B-18floor, Cuffparade, Mumbai -400009.
5. Indian Cotton Mills Federation - ICM - Textile Centre 34 P-d, Mello Road,Mumbai4009
6. Indian Silk, Central Silk Board, Ministry of Textiles, M G Road, Bangalore -560001.
7. Man-made Textiles in India - SASMIRA, Sasmiramarg,Worli,Mumbai
8. Textile Magazine, Magazine House, 710 MountRoad,Chennai
9. Textile trends, East land Publications Pvt Ltd, 44 ChittranjanAvenue,Calcutta-12.
10. Handloom Export Promotion Council 622 MountRoadChennai
11. Garments India, Garment India Press, 53 South WestRoad,Chennai-17
12. Indian Jute Bulletin-Indian Regional office, 4K S Pay road, Calcutta-1.
13. Hosiery and Textile Journal-International Magazine Home-164 ModiStreet,Fort,Mumbai
14. Textile Highlights, 396, Veerasavarkarmarg, Poabhadevi,Mumbai-25
15. Clothing News Bulletin, Clothing Manufacturers Association of IndiaHouse,Mumbai-26
16. The Textile Institute and Industry, 10 Back Brance. Street,Manchester

Course Outcomes:

On successful completion of the course, the students will be able to gain knowledge about

CO 1 –Origin, growth and development of textile industry.

CO 2 –Governmentplans for technological developments in fiber and spinning industry.

CO 3 –Technical developments in fabric manufacturing and finishing industries.

Course prepared by: K.Amutha

Course Verified by: Dr.K.Sangeetha

Title of the Course: **ElectiveIII:HomeTextiles**

No. of Credits:**4**

No. of Teaching hours: **4/week**

CourseObjectives:

CO1 - Learn about Home Textiles inIndia.

CO2- Different Types of Home Textile production and Application

CO3- Functional requirement for the application of Home Textiles

UNIT – I

Home Textile in India: Introduction, history, exports - Trends in home textile industry – Domestic and Global market for home textiles, Major production centers inIndia.

Home Textile Products - Role of fabric in interior furnishing – Properties required – Factors affecting that selection of fabrics - Different fibres used, Standard sizes, Fabric requirement and cost calculations.

UNIT – II

Seating: Structures, lay out, Range & size – Material used – Manufacturing – Double cloth – loop pile

– cut pile – cushion foam – multi layer sheets – seat covers – types &materials.

Bed Linens - Definitions – design & size - Bed spread designs – chenille and organic bed spreads – dimensions – Bed sheets – types – fitted sheets – manufacturing process – bed skirts – types – mattress

– domestic and international market for bed linens – pillows - Quilt:types–

Machine, Hand quilting – Knotted and tied – Trapunto – Shadow trapunto – export and import contributions – process sequence for bed linen – scope in global market.

UNIT – III

Windows: Basic sizes, Lay outs, Materials – Voiles, Nets - Sun filters - Semi sheers - Reflective textiles - Draperies – Types – Valances – Types – Shades – Types – Swags — Headings – Types- Distribution Channels - Curtains - Introduction - Types of curtains – Characteristics of curtain fabrics.

Wall Coverings: Requirements, benefits, types - carpet as wall covering - Materials and manufacturing of fabrics – Application, end use – colourconcepts.

UNIT - IV

Table Linens - Place mats and table cloths - Definition – Placemats – Varieties of placemats – Making process flow – Instruction – tips & warnings – Reversible placemats – Stone placemats– table cloths – Types, material &manufacturing.

Kitchen Linens - Introduction - Material used – Kitchen products – Oven mitten – Pot holder – Apron - Napkins – Doilies – Kitchen mats – Dining table cloth – teacozy–kitchen curtain– Table runner – Kitchen rugs – Types of stitches and seamsused.

UNIT – V

Floor Coverings: Definitions – Fibre used – Types of carpets – Comparison of carpets – broad loom carpets — Benefits of carpets and rugs - Carpet cushions – Manufacturing Process –Rugs

Types of rugs – Knots and oriental rugs – Embroidered rugs – Natural leather rugs–Advances - Earth carpets – Thinking carpets – Magic carpets – Lawn carpets.

Bath Linen: Categories – bath robe – Sizes & design elements - Terry towels – Classification – Ranges – Fibre used – Standard sizes – Manufacturing flow chart – Construction of terry towelsMarket share – Productioncenters.

Reference Books

1. T. Karthick et.al —Home Textiles Astral International Pvt Ltd,NewDelhi.
2. Ghosh,Dr.AshisKumar-TraditionalKnowledgeofHousehold,DayaPublishingHouse
3. Kapoor,HemantandAashimaArora-HomeTextiles, AstralInternationalPvtLtd,NewDelhi

Course Outcomes:

On successful completion of the course, the students will be able to understand about

CO1 –Home textiles and its products

CO2- Different types of home textile manufacturing and applications

CO3- Functions of Home textiles

Course prepared by: Dr.M.Sumithra

Course Verified by: Dr.K.Sangeetha
