

SNDT Women's University, Mumbai

Master of Science in Textile Science and Apparel Design

M.Sc. Home Science-

(Textile Science and Apparel Design)

as per NEP-2020

Syllabus

(2023-24)

Programme Template

| Programme | Master of science |
|--|---|
| Specialization | Textile Science and Apparel Design |
| Preamble (Brief Introduction to the programme) | Master of Textile Science and Apparel Designing is a PostGraduate degree course. The program emphasizes creativity and conceptualization, technical aspects as well as independent research and artistic expression |
| | The Master of Science course in Textile Science and Apparel Designing exposes the students to subjects like chemical processing of textiles, pattern making, fashion illustration, advanced fabric science, statistics, research methods, International embroideries, & quality control in fabric & apparel, draping of patterns. The duration of the Master of Science course in Fabric and Apparel Designing is two years and it is career-orienting in nature that opens many scopes for them. |
| | The Master of Science degree course in Textiles Science and Apparel Design is an option that combines the art of design, the science of chemistry and the perspective of history in a rich, challenging learning environment that prepares individuals for dynamic careers at the creative forefront of the textile industry. |
| Programme Specific Outcomes (POs) | After completing this programme, Learner will |
| | Apply the specialized knowledge of textile science to find solution for complex scientific problems related to textile and apparel industry. |
| | Develop ability to test and assess quality parameters of various textile materials as per the global standards at testing laboratories. |
| | Gain knowledge in selection, identification of fibers, yarn and fabrics for various end uses. |
| | Develop eco-friendly textile products in support of environmental sustainability. |

| | Design solutions for industry needs considering the public health and safety, culture, society and the environment. |
|---|---|
| | Able to identify, formulate, review of research literature and analyze complex problems of textiles. |
| | Gain knowledge on technical textiles that will help students towards designing smart, innovative apparels for various applications from sportswear to protective clothing. |
| Eligibility Criteria for Programme | Minimum 45% for students with B.Sc. Degree in Textile Science and Apparel Design, Fashion, Apparel Design, Dress Design etc. Minimum 50% for students with B Design / Textile Design Minimum 50% for students B. Sc. Composite Home Science, B.A. Home Science, B. Sc. General Home Science, B.Sc. Human Ecology and Consumer Studies, B. Sc. Family and Community Science who have completed minimum of 8 credits under semester pattern or 200 marks under annual pattern of courses related to Textile and Apparel Design. B Voc. (Textile Design, Fashion Design, Apparel Design and related field) with 45% marks |
| Intake (For SNDT WU Departments and Conducted Colleges) | 25 |

Master of Science in Textile Science and Apparel Design

Year I

| SN | Courses | Type of Course | Credits | Marks | Int | Ext |
|--------|---|-------------------------|---------|-------|-----|-----|
| | | Semest | er I | | | |
| 114811 | Chemical Processing of Textiles (Th) (U) | Major (Core) | 4 | 100 | 50 | 50 |
| 114822 | Chemical Processing of Textiles (Pr) (C) | Major (Core) | 4 | 100 | 50 | 50 |
| 114823 | Garment Design and Construction (Pr) (C) | Major (Core) | 4 | 100 | 50 | 50 |
| 114814 | Global Costumes (Th) (C) | Major (Core) | 2 | 50 | 50 | 0 |
| 124811 | Sustainability in Textile and Apparel (Th) (U) | Major (Elective) | 4 | 100 | 50 | 50 |
| 134811 | Research Methodology (Th) (U) | Minor Stream (RM) | 4 | 100 | 50 | 50 |
| | | | 22 | 550 | 300 | 250 |
| | | Semeste | er II | | | |
| 214811 | Quality Control for Textile & Apparel (Th) (Pr) (U) | Major (Core) | (2+2) 4 | 100 | 50 | 50 |
| 214822 | Garment Design through Draping (Pr) (C) | Major (Core) | 4 | 100 | 50 | 50 |
| 214813 | Apparel Merchandising (Th) (U) | Major (Core) | 4 | 100 | 50 | 50 |
| 214824 | International Embroideries and Paintings (Pr) (C) | Major (Core) | 2 | 50 | 0 | 50 |
| 224821 | Advance Fashion Illustration (Pr) (C) | Major (Elective) | 4 | 100 | 50 | 50 |
| 244841 | Internship (Pr) (U) | TLO | 4 | 100 | 50 | 50 |
| | | | 22 | 550 | 250 | 300 |

Exit option (44 credit):

Post Graduate Diploma in Textile Science and Apparel Design

Year II

| SN | Courses | Type of Course | Credit s | Marks | Int | Ext |
|--------|--|---------------------|------------|-------|-----|-----|
| | | Semester III | | | | |
| 314811 | Technical Textiles (Th) (U) | Major (Core) | 4 | 100 | 50 | 50 |
| 314812 | Knitting Technology (Th) (U) | Major (Core) | 4 | 100 | 50 | 50 |
| 314813 | Research and Statistical Applications (Th)(Pr)(U) | Major (Core) | (2+2) 4 | 100 | 50 | 50 |
| 314824 | Garment Production Technology (Pr) (C) | Major (Core) | 2 | 50 | 0 | 50 |
| 324811 | Garment Production Technology (Th) (C) | Major (Elective) | 4 | 100 | 50 | 50 |
| 354831 | Dissertation I (Pr) (U) | RP | 4 | 100 | 50 | 50 |
| | | | 22 | 550 | 250 | 300 |
| | | Semester IV | | | | |
| 414811 | Environmental aspects of Textile and Clothing (Th) (U) | Major (Core) | 4 | 100 | 50 | 50 |
| 414812 | Fabric Structures & Fabric Analysis (Th) (Pr) (U) | Major (Core) | (2+2) 4 | 100 | 50 | 50 |
| 414823 | Project Work (Pr) (U) | Major (Core) | 4 | 100 | 50 | 50 |
| 424851 | Recent Advances in Textile Science & Apparel Design (Seminar) (C) | Major (Elective) | 4 | 100 | 50 | 50 |
| 454831 | Dissertation II (Pr) (U) | RP | 6 | 150 | 100 | 50 |
| | | | 22 | 550 | 300 | 250 |

Semester I

1.1 Major (Core)

| Course Title | Chemical Processing of Textiles (Theory) (University Exam) | |
|----------------------|--|--|
| Course Credits | 4 | |
| Course Outcomes | After going through the course, learners will be able to | |
| | Understand the need, significance and detailed various wet preparatory processes required to prepare the fabric for dyeing and printing of textiles. | |
| | 2. Analyze and compare different methods for the preparatory processes. | |
| | 3. Know about various machineries used for various wet processes. | |
| | Gain awareness of new advancements in the area of wet processes machineries. | |
| | 5. Develop awareness towards preservation of environment. | |
| | Gather adequate knowledge of different pollutants, their sources, and their effects. | |
| Module 1 (Credit 1 |) - Introduction to Polymers and Fiber Science | |
| Learning Outcomes | After learning the module, learners will be able to | |
| | 1. Define polymers. | |
| | 2. Differentiate different extrusion techniques. | |
| Content Outline | Introduction (In brief) | |
| | Relevance of chemical processing in apparel performance | |
| | Fibre Science: | |
| | Unit 1: Polymers and their essential requirements to be fibres for apparel; | |
| | Filament extrusion techniques in relation to fibre properties. | |
| | Unit 2: Natural fibres such as cotton, wool, silk; Important features of their physical and chemical structure; | |
| | Properties in relation to fabric/garment performance, | |
| | Introduction to cultured fibres. | |
| | Unit 3: Synthetic fibres such as polyester, nylon, acrylic, viscose, | |

| | Tencel and polypropylene; |
|----------------------|--|
| | Important features of their physical and chemical structure; |
| | Properties in relation to fabric/garment performance |
| Module 2 (Credit 1 |) - Pre-Treatment, Dyeing, and Printing of Textiles |
| Learning Outcomes | After learning the module, learners will be able to |
| outcomes | 1. Understand importance of pre and post treatments |
| | 2. Know about Performance of textile material |
| | 3. Selection of dye class as per fiber |
| Content Outline | Pre-treatment of textiles |
| | A. Importance of pre-treatments B. Cotton: desizing, scouring, bleaching, Mercerization C. Wool: scouring, bleaching D. Silk: degumming, bleaching E. Synthetics: scouring, heat setting |
| | Colouration of Textiles |
| | Unit 1: Colour perception, Hue, Chroma, Saturation; Dyes and pigments; Application wise classification of dyes; |
| | Unit 2: Principles of dyeing and application of dyes |
| | a. Direct, Reactive, Vat on cotton, b. Disperse on polyester, c. Acid on wool and nylon, d. Basic on acrylic, silk, e. Natural dyes. |
| | Unit 3: Performance of dyed textiles; Fastness requirements for different end uses |
| | Unit 4: Printing of textiles: |
| | Principles of printing, Printing using dyes and pigments on different fibre fabrics; fixation of prints using various methods; Techniques of printing. After treatments like fixation by steaming/curing, soaping, washing, etc. |
| Module 3 (Credit 1 |) - Textile Finishing and Auxiliary Chemicals |
| Learning Outcomes | After learning the module, learners will be able to |
| Catcomes | 1. Differentiate between finishes applied on textile. |
| | 2. Auxiliaries used and its importance. |
| | |

| | Classification of finishes; Mechanical and assisted finishes and machines used for; Specialty Finishes like wrinkle free, durable press, flame retardant, water proof, soil & stain release, antibacterial. |
|----------------------|--|
| | Classification of auxiliary chemicals used in textile processing; |
| | Properties of wetting agents, softeners, detergents, levelling agents, carriers, bleaching agents, thickeners, binders; |
| | Eco-friendly chemicals |
| Module 4 (Credit 1) | - Textile Processing Equipment and Machinery |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Develop awareness towards working of equipments. |
| | 2. Know the machineries suitable for different processes. |
| Content Outline | Introduction to equipment and machineries used in |
| | Processing , such as kier/ J-box, winch, jigger, padding mangle, steamer, curing chamber, washing unit, jet dyeing |
| | Smart Textiles (Assignment to students) |

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE):

- 1. Smart Textiles
- 2. Equipment used as per process.
- 3. Report on Advance fibers

References:

- 1. Sustainable Textiles: Life Cycle and Environmental Impact, Richard Blackburn, Wood head Pub.Ltd., 2009
- 2. Eco Textiles, Miraftab M. and Horrocks R., Wood head Pub.Ltd, Cambridge, 2007
- 3. Eco Textiles and Sustainability, K.Sangeetha, Laser Park Publishing House, 2017
- 4. Cook, J. Gordon, Hand Book of Textile Fibers, Merrow Publishing Co. Ltd, England. 1984
- 5. Lewin, M. and Sello, Stephen B., Handbook of Fiber Science and Technology, Vol. II, Chemical Process of Fibres and Fabrics, Functional Finishes Part A, 1983, Marcel Decker, Inc, NY and Basel.

- 6. Mark H., Wooding N.S. & Atlas Smeeds, Chemicals after Treatment of Textiles, 1970, John Wiley & Sons Inc., NY.
- 7. Marsh, J.T. An Introduction to Textile Finishing, 1979, B. I. Publications.
- 8. Moncrief R.W, Manmade Fibres, John Wiley & Sons New York.
- 9. Shenai V.A. and Mehra, R.H. Evaluation of Textile Chemicals 1984; Vol.VIII,
- 10. Shenai V.A. and Saraf, N.M., Chemistry of Organic Textile Chemicals- Sevak Pub
- 11. Shenai V.A. Chemistry of Dyes & Principles of Dyes 1987; Vol.III, Edition III, Sevak Pub
- 12. Shenai V.A. Textile Fibers 1990; Vol. I, Edition III, Sevak Pub
- 13. Shenai V.A. and Saraf, N.M. Technology of Finishing 1990, Vol. X.II Edition 14. Shenai V.A. Technology of Dyeing, Vol.I, Edition III, 1984, Sevak Pub.
- 15. Shenai, V.A. Technology of Dyeing, Vol. VI, 1988; Sevak Pub
- 16. Shenai V.A. Technology of Textile Processing, 1984, Vol. IX, Sevak Publication
- 17. Shenai.V.A Fundamental Principles of Textile Processing, 1984; Vol. IX, I Edition, Sevak Pub
- 18. Trotman, E.R. Dyeing and Chemical Technology of Textile Fibers, 1975, Charles Griffino Company Ltd, London.

Online Contents:

- 1 Textile Fibers<u>https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827</u>
- 2 Natural Fibers<u>https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827</u>
- 3 Natural Dyes and Mordents <u>https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827</u>
- 4 Textile Finishinghttps://nptel.ac.in/courses/116102054/
- 5 Chemical Technology I Web Course https://nptel.ac.in/courses/103/107/103107082/
- 6 India Horti business on line. http://www.agroindia.org/1HOL

7 1.2 Major (Core)

| Course Title | Chemical Processing of Textiles (Practical) | |
|------------------|--|--|
| | (College exam) | |
| Course Credits | 4 | |
| Course | After going through the course, learners will be able to | |
| Outcomes | 1. Acquainted with the polymers of which the textile fibres are made. | |
| | Explain the principles of chemical processing i.e. from pretreatments process to finishing of textiles. | |
| | 3. Understand the fastness requirements of dyed materials. | |
| | 4. Importance and use of natural dyes. | |
| Module 1 (Credit | 1) - Fiber Identification and Pre-Treatments | |
| Learning | After learning the module, learners will be able to | |
| Outcomes | 1. Perform fiber identification. | |
| | 2. Differentiate between pretreatments. | |
| Content Outline | a. Qualitative Identification of fibres – Cotton, polyester, viscose, nylon, silk, wool and others by use of burning, microscopic, chemical tests. b. Pre treatments De-sizing, scouring and bleaching of grey cotton fabric | |
| | | |
| Module 2 (Credit | 1) - Dyeing Techniques and Methods | |
| Learning | After learning the module, learners will be able to | |
| Outcomes | 1. Understand exhaust method of dyeing. | |
| | 2. Carry out dyeing on different materials. | |
| | 3. Carry out dyeing using different dye classes. | |
| Content Outline | Exhaust dyeing experiments: | |
| | Dyeing of cotton with direct dye Dyeing of cotton with reactive dye Dyeing of wool, silk and nylon with acid dye Dyeing of polyester with disperse dye by carrier method Dyeing of acrylic with basic dye Dyeing of a natural dye on wool using mordant Dye identification | |
| Module 3 (Credit | 1) - Printing Techniques and Styles | |

| Learning Outcomes | After learning the module, learners will be able to |
|----------------------|--|
| | 1. Differentiate between different styles of printing. |
| | 2. Carry out printing on different materials. |
| | 3. Carry out printing with different dye class. |
| Content Outline | Direct style printing experiments: |
| | Printing on cotton with reactive dye/ Printing of cotton with pigment/ Printing of nylon with acid dye/ Printing of polyester with disperse dye |
| | Discharge style printing experiments: |
| | White/ color discharge under direct dyed cotton |
| | Mechanical resist printing experiments: |
| | Batik style, tie & dye on cotton |
| Module 4 (Credit | 1) - Textile Finishing and Evaluation |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Apply finish on cotton material. |
| | 2. Perform evaluation of applied finish. |
| Content Outline | Finishing experiments: |
| | Application of starch on cotton and stiffness measurement Application of resin finish/ soil resistance/flame retardant on cotton (pad-dry- cure) and crease recovery angle measurement of finished cotton |

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

- 1. Market survey for fibers available
- 2. Visit to dyeing unit.

References:

- 1. Sustainable Textiles: Life Cycle and Environmental Impact, Richard Blackburn, Wood head Pub.Ltd., 2009
- 2. Eco Textiles, Miraftab M. and Horrocks R., Wood head Pub.Ltd, Cambridge, 2007

- 3. Eco Textiles and Sustainability, K.Sangeetha, Laser Park Publishing House, 2017
- 4. Cook, J. Gordon, Hand Book of Textile Fibers, Merrow Publishing Co. Ltd., England
- 5. Mohanty, Chandramouli, Naik, Natural dyeing process of India, 1987, Ahmedabad, Calico Museum of Textiles.
- 6. Gulrajani M.L. and Gupta, D. Natural Dyes and their Application to Textiles, (1982), IIT Delhi.
- 7. IndiaHortibusinessonline.http://www.agroindia.org/1HOL
- 8. Lewin, M. and Selio, Stephen B., Handbook of fiber Science and Technology, Vol. II, Chemical Process of I and Fabrics, Functional Finishes Part A 1983 Marcel Deker, Inc, NY and Basel.
- 9. Mark H., Wooding N.S. & Atlas Smeeds, Chemicals after Treatment of Textiles, 1970, John Wiley & Sons Inc., NY.
- 10. Marsh, J.T. An Introduction to Textile Finishing, 1979, B. I. Publications.
- 11. Moncrief: R.W., Manmade Fibers, John Wiley & Sons New York.
- 12. Shenai, V.A. Introduction to the Chemistry of Dyestuffs 1991, Sevak Prakashan
- 13. Shenai, V.A. Technology of Textile Processing, 1984, Vol.- IX, Sevak Publication
- 14. Shenai, V.A. Fundamental Principles of Textile Processing, 1984, Vol. IX, I Edition, Sevak Pub
- 15. Shenai, V.A. and Mehra R.H. , Evaluation of Textile Chemicals, 1984, Vol.VIII, Sevak Pub
- 16. Shenai, V.A. and Saraf, N.M. Technology of Finishing 1990, Vol. X.II Edition
- 17. Shenai, V.A. and Saraf, N.M., Chemistry of Organic Textile Chemicals- Sevak Pub
- 18. Shenai, V.A. Chemistry of Dyes & Principles of Dyes, 1987; Vol.III, Edition III, Sevak Pub
- 19. Shenai, V.A. History of Textile Design, 1988, Sevak Pub
- 20. Shenai, V.A. Technology of Dyeing, 1984, Vol.I, Edition III, Sevak Pub.
- 21. Shenai, V.A. Technology of Dyeing, 1988; Vol. VI, Sevak Pub
- 22. Shenai, V.A. Textile Fibers, 1990, Vol. I, Edition III, Sevak Pub
- 23. Trotman, E.R. Dyeing and Chemical Technology of Textile Fibers, 1975, Charles Griffino Company Ltd, London

Online Contents

- 1. Textile Fibershttps://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827
- 2. Natural Fibershttps://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827
- 3. Natural Dyes and Mordents
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- 4.Textile Finishinghttps://nptel.ac.in/courses/116102054/
- 5. Chemical Technology I Web Course https://nptel.ac.in/courses/103/107/103107082/
- 6. IndiaHortibusinessonline.http://www.agroindia.org/1HOL
- https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=8x0nJkh/R0vHkX1U70Z/ CQ
- 8. http://textlnfo.wordpress.com/2011/10/24/classification-of-textile-fibersaccording/
- 9. https://nptel.ac.in/courses/116102026

1.3 Major (Core)

| Course Title | Garment Construction (Practical) |
|-----------------------|--|
| | (University Exam) |
| Course Credits | 4 (Pr) |
| Course Outcomes | After going through the course, learners will be able to |
| | Design and develop draft patterns for different garments based on body measurements and adaptations. |
| | handling different fabrics, embellishments and quality of finishing of garments. |
| | 3. Understand quality control and commercial process used in Apparel Industry |
| Module 1 (Credit 1) | - Drafting and Stitching Ethnic Casual and Party Wear |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Draft, cut and stitch ethnic casual wear |
| | 2. Draft, cut and stitch Ethnic party wear |
| Content Outline | I To develop and Grade Five Basic Bodice blocks (Bodice front and back, sleeve, skirt front and back) |
| | Design and Construct garments using following theme Casual Ethnic wear |
| | Salwar / Chudidar/ palazzo/ straight pant Kurta |
| | Design and Construct garments using following theme Ethnic Party wear |
| Module 2 (Credit 1) | - Designing and Constructing Indo-Western Outfits |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Design and cut indo- western outfit. |
| | 2. Stitch and finish indo- western outfit. |
| Content Outline | Design and Construct Western or Indo -Western outfit Trousers and Top or Skirt and Top or |
| | • Dress |
| Module 3 (Credit 1) | - Commercial Paper Patterns and Garment Construction |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Develop, Design and Grade commercial paper pattern. |

| I | |
|---------------------|---|
| | 2. Construct a garment using commercial paper pattern. |
| Content Outline | To construct a garment using commercial pattern |
| Module 4 (Credit 1) | - Drafting, Cutting, and Finishing Gents' Garments |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Understand drafting and cutting of gents garments. |
| | 2. Understand stitching and finishing of gents garments |
| Content Outline | Demonstration of cutting and stitching of gent's shirt or trouser by a professional tailor and Visit to a Readymade industry (Construction details, machinery and Quality Control to be explained to the students who have to submit a report on the same) |

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

- 1. Visit to any apparel production unit/Boutique
- 2. Innovative use of any traditional textile of India for garment construction

References:

- 1. Brackman, Helen L. 1965. Theory of Fashion Design, New York John Wiley & Sons
- 2. Helen Joseph, Armstrong. 2007. Draping for Apparel Design Fairchild Publication, New York
- Hilde Jaffe and Norie Relis. 1994.Draping for Dress Design (4th ed.) Pearson Prentice Hall, New Jersey
- 4. Hill House M.S. & Mansfield E.A., 1944. Dress Design Draping & Flat Pattern London
- 5. Natalie Bray. 2003. Dress Fitting (2nd Ed.) Blackwell Science
- 6. Natalie Bray.2003. More Dress Pattern Designing (4th Ed.) Blackwell Science
- Nora Mac Donald, 2009. Prentice Hall, Principles of Flat Pattern Design (2nd Ed.) NewJersey
- 8. Popin, Harriet, 1945. Modern Pattern Design, New York
- 9. Sheldon Maratha Gene. A974. Design through Draping, U.S.A. Burgers Publishing Company
- 10. Strickland Gertude, 2012. A Tailoring Manual, New York, Macmillan Company.
- 11. Adele P., 2019. The complete book of Tailoring, Margolis
- 12. David J. Tyler. 1991. Material Management in Clothing Production
- 13. Gerry Cooklin, 1991.Pattern Grading for children's/ womens'/ men's clothing technology of sizing. Oxford B.S.P. PROFESSIONAL BOOKS, London
- 14. Gerry Cooklin, 2012. Garment Technology for Fashion Designers, Blackwell Science Ltd.
- 15. Winifred Aldrich. 1987. Metric Pattern Cutting for children's wear (214years) 2nd edition
- 16. Winifred Aldrich. 1996. Metric Pattern Cutting for men's wear 3rd edition

17. Winifred Aldrich. 1996. Metric Pattern Cutting for women's wear 3rd edition

Online Content

- 1. https://www.youtube.com/watch?v=IB9n4KFTRmE
- 2. https://textilelearner.net/drafting-of-mens-short-sleeve-shirt/
- 3. https://www.academia.edu/27656962/PERSONAL_BASIC_PATTERN_MAKING_B LOCKS
- 4. https://cbseacademic.nic.in/web_material/publication/cbse/41BasicPatternDeve lopment-XII.pdf
- 5. https://www.clothingpatterns101.com/pattern-grading.html
- 6. https://www.onlineclothingstudy.com/2020/07/basics-of-pattern-grading.html

1.4 Major (Core)

| Course Title | Global Costume (Theory) | | |
|----------------------------|--|--|--|
| | (College Exam) | | |
| Course Credits | 2 (Th) | | |
| Course Outcomes | After going through course, learners will be able to 1. Students will able to understand the significant development in production of textiles in the World. | | |
| | Students will able to develop sound attitude and interest regarding styles and patterns of costumes of India. | | |
| | Students will able to focus on design details, creation of styles and accessories used from the ancient period till present century. | | |
| | Student will able to identify the clothing styles from 3000 BC till 21st century. | | |
| Module 1 (Credit Modern | 1) - History of Fashion and Textiles: From Ancient to | | |
| Learning Outcomes | s After learning the module, learners will be able to | | |
| | 1.Students will able to identify the costumes to its | | |
| | nationality. | | |
| | Students will able to understand the Fabric, techniques and drapes of costumes. | | |
| | 3.Students will able to understand the importance of textile in historical prospectives. | | |

| Content Outline | History of Fashion from 18th Century till date | |
|----------------------------|---|--|
| | Couture: - | |
| | France | |
| | Italy | |
| | England | |
| | America | |
| | • Japan | |
| | • India | |
| | Importance of textiles in historical perspective | |
| | Early Fibber's and their products, their use in early civilization: | |
| | - | |
| | • India – | |
| | China | |
| | • Egypt | |
| | Persia | |
| | • Crete | |
| | • Greek | |
| | • Rome | |
| | • Peru | |
| | | |
| | Costume in ancient civilization: | |
| | Emphasize on fabric, Garment features, Use of colour and | |
| | decoration. Accessories used in costumes with reference to | |
| | design, material, colour, texture and suitability: - | |
| | • Indian | |
| | Egyptian | |
| | • Greek | |
| | • Roman | |
| | Couture from 18th century till date: - | |
| | France | |
| | • Italy | |
| | England | |
| | American | |
| | • Japanese | |
| | • Indian | |
| Module 2 (Credit 1 Ages |) - Evolution of Clothing Styles and Couture Through the | |
| Learning Outcomes | After learning the module, learners will be able to | |
| | 1. Students will able to understand concept of couture. | |
| | 2. Students will able to understand the changes happen in | |
| | clothing style from 3000 BC till 21 st century. | |
| | 3. Students will able to develop fashion garments inspired | |
| | by different eras. | |
| | by unletent etas. | |

| Content Outline | Changes happened in clothing style from 3000 BC till 21st century: |
|-----------------|--|
| | Modern Age: |
| | Renaissance Fashion |
| | Spanish Fashion |
| | Netherland Fashion |
| | Rhineland Fashion |
| | Rococo Fashion |
| | English Fashion Present Day: |
| | 20th century |
| | o 1900-1950 |
| | o 1951-2000 |
| | 21st century |
| | o 2000-2010 |
| | o 2011-2020 |

Assignment:

- 1. Costume of stage
- 2. Digital documentation on traditional textiles.

References:

- 1. Amy Da La Haye, James Laver, Costumes and Fashion: A concise History 2012, Thames and Hudson.
- 2. Bonnie English, A Cultural History of Fashion in the 20th and 21st Centuries, 2nd edition 2018, Bloomsbury Visual Arts.
- 3. Bonnie English, Iarin R. Webb, the Little Book of Big Ideas Fashion 2009, A & C Black.
- 4. Daniel Delis Hill, History of world Costume and Fashion 2007, Pearon.
- 5. Gini Stephens Frings, Fashion from Concept to Consumer, 2002, Prentice Hall N. Jersy Inc.
- 6. Janet Harney, Traditional Textiles of Central Asia 2009, Thames & Hudson.
- 7. John Gillow, Bryan Sentance, World Textiles 2005, Thames & Hudson.
- 8. Owen Jones, the ferment of ornament 2001, Gardners Book.
- 9. Roshen Alkazi, Ancient India Costume 2011, 1st edition NBT.
- 10. Ritu Kumar, Costume and Textile of Royal Insia 2006. Riu Kumar.
- 11. Sheila Paine, Embroidered Textiles: A World Guide to Traditional Ptterns 2010, Thames & Hadson.
- 12. Vandana Bhandari, Costumes, Fashion & Jewellery of India 2005, Mercury Books.

1.5 Major (Elective)

| Course Title | Sustainability in Textiles and Apparels (Theory) | | | |
|-----------------------|---|--|--|--|
| | (University Exam) | | | |
| Course Credits | 4 | | | |
| Course Outcomes | After going through the course, learners will be able to | | | |
| | 1. Know about the ecological aspects affected by textile coloration process. | | | |
| | 2. Effective ways to reduce textile waste | | | |
| | 3. Understand the different types of waste outputs from the textile industry and their management techniques. | | | |
| | 4. Analyze eco standards | | | |
| | 5 Create awareness about slow fashion | | | |
| Module 1 (Credit 1) - | Eco-Textiles Basics | | | |
| Learning Outcomes | After learning the module, learners will be able to | | | |
| | 1 Understand the importance of Ecology and Structure of Eco system. | | | |
| | 2 Apply various techniques to extract the natural fibers for making eco textiles. | | | |
| | 3 Extract and apply natural dyes and finishes for eco textiles. | | | |
| | 4 Gain knowledge on Eco testing and Eco standards. | | | |
| | 5 Gain knowledge on Sustainability concepts. | | | |
| Content Outline | Eco-Textiles | | | |
| | Introduction & needs for eco-textiles & its importance. | | | |
| | Ecology - Production ecology, | | | |
| | Human ecology & Disposal ecology. | | | |
| | Structure and stability of the ecosystem. | | | |
| | Toxicology of textile dyes. | | | |
| | German ban on toxic dyes, chemicals and auxiliaries | | | |
| Module 2 (Credit 1) - | Eco Standards and Sustainability | | | |
| Learning Outcomes | After learning the module, learners will be able to | | | |

| 1 | 1 Apply different and standards | |
|-----------------------|--|--|
| | 1. Apply different eco standards. | |
| | 2. Evaluate connection between supply, demand and sustainability. | |
| | 3. Define the term sustainability. | |
| | 4. Analyze sustainable future. | |
| | 5. Study about eco auditing. | |
| Content Outline | Eco Standards for Textiles and Sustainability | |
| | Eco Standards for Textile. | |
| | Eco-Auditing and Eco-labelling, Eco mark on textiles. | |
| | Sustainability - definition, history, importance, primary goals, concepts, principles and dimensions, textiles circular and linear economy, Recycling of textiles, The connection between supply, demand and sustainability, a sustainable future. | |
| Module 3 (Credit 1) - | Green Clothing Care | |
| Learning Outcomes | After learning the module, learners will be able to | |
| | 1 Gain knowledge about clothing care. | |
| | 2 Know about various processes in maintenance of clothing. | |
| | 3 Evaluating the best method for clothing maintenance. | |
| | 4 Create sustainable method for caring the wardrobe. | |
| | 5 Study about the packing of textiles. | |
| Content Outline | Unit 1 Sustainable Clothing Care | |
| | Green cleaning: ozone laundering, ultrasonic cleaning. | |
| | Eco-friendly detergents and chemicals for sustainable clothing care. | |
| | Hand vs. machine wash, wash | |
| | cycles in washing machines, | |
| | Energy efficiency of washing machines and dryers. | |
| | Water and carbon footprint of clothing care. | |
| | Unit:2 Green Consumerism Green consumerism and waste reduction, consumer responsibility towards sustainable fashion. 3Rs – Reduce, Reuse and Recycle | |

| Module 4 (Credit 1) - | Ethical Fashion and Upcycling | | |
|-----------------------|--|--|--|
| Learning Outcomes | After learning the module, learners will be able to | | |
| | 1 Understand sustainability of fashion industry. | | |
| | 2 Analyze ethical fashion. | | |
| | 3 Analyze eco-textiles and eco-friendly fashion labels. | | |
| | 4 Evaluate sustainable fashion products. | | |
| | 5 Create upcycled / down cycled products. | | |
| Content Outline | Unit:1 Sustainability in Fashion | | |
| | Introduction: Fashion, Sustainability, Pillars of sustainability, Sustainable fashion – meaning and importance. | | |
| | Unit:2 Responsible Fashion | | |
| | Concepts of recycling and upcycling. Carbon footprint, water footprint and energy consumption of fashion industry. | | |
| | Unit:3 Sustainable Fashion Brands and Labels | | |
| | Sustainable fashion designers, sustainable fashion brands, Eco- friendly fashion labels ,post life cycle | | |

Assignments/Activities

- 1. Visit to industry
- 2. Eco fibers collection/ market survey
- 3. Report on sustainability of Fashion industry.
- 4. Create upcycled / down cycled products

Reference

- 1. Eco Textiles and Sustainability, K. Sangeetha, Laser Park Publishing House, 2017
- 2. Sustainable Textiles: Life Cycle and Environmental Impact, Richard Blackburn, Wood head Pub.Ltd., 2009
- 3. Eco Textiles, Miraftab M. and Horrocks R., Wood head Pub.Ltd, Cambridge, 2007
- 4. Care and Maintenance of Textile Products Including Apparel and Protective Clothing Rajkishore Nayak, SaminathanRatnapandian, Textile Institute Professional Publications, 2018
- 5. Household Textile & Laundry Work, Durga Deulkar, 2011
- 6. Fundamentals of Textiles and their Care, Dantyagi, 1996

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- 8. Re-Fashioned- Cutting Edge Clothing from Upcycled Materials, Brown S, Lawrence King Publishing, 2013.
- 9. Fashion and Sustainability-Design for Change, Fletcher K, Lawrence King Publishing, 2012.
- 10. Biobased Products and Industries, Charis M. Galanakis, Elsevier, 2020.
- 11. The Impact and Prospects of Green Chemistry For Textile, Shahid UI-Islam, Bhupendra Singh Butola, Elsevier, 2018
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- 14. How to Take Care of Your Clothes: Advice from the Ancestors, Claire Leavey Edited and Updated for Modern Living (Retro Metro Techno books) – Import, 2012
- 15. Field Guide to Stains: How to Identify and Remove Virtually Every Stain Known to Man Book by Melissa Wagner, Nancy Armstrong, and Virginia M. Friedman, 2002
- 16. Laundry: The Home Comforts Book of Caring for Clothes and Linens, Cheryl Mendelson, 2010
- 17. Care Labeling in Garments, R.Senthilkumar, 2016
- 18. Textiles and their care, Anuradha Sharma, 2010
- 19. Cut up Couture- Edgy Upcycled Garments to Sew, Yamase K, Interweave, 2012.
- 20. Sustainable Fashion and Textiles- A Design Journey, Fletcher K, Lawrence King Publishing, 2008.
- 21. Sustainable Luxe- A Guide to Feel Good Fashion, Phillips J, Create Space Publishing, 2013.

Online Contents

- 1. Textile Fibers<u>https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827</u>
- 2. Natural Fibers<u>https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827</u>
- 3. Natural Dyes and Mordents <u>https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=82_7</u>
- 4. Textile Finishing<u>https://nptel.ac.in/courses/116102054/</u>
- Standards and Specifications, Eco Standards https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=82 7
- Chemical Technology I Web Course -<u>https://nptel.ac.in/courses/103/107/103107082</u>
- 7. Water Supply Engineering https://nptel.ac.in/courses/105/105/105105201/
- 8. <u>https://www.coursera.org/learn/sustainable-fashion</u>
- 9. <u>https://www.edx.org/course/circular-fashion-in-a-sustainable-clothingindustry</u>
- 10. https://www.my-mooc.com/en/mooc/sustainable-fashion/
- 11. https://www.sustainablefashionmatterz.com/what-is-sustainable-fashion

1.6 Minor Stream (RM)

| Course Title | Research Methodology (Theory) (University Exam) | | | |
|---------------------|---|--|--|--|
| | | | | |
| Course Credits | 4 (Th) | | | |
| Course Outcomes | After learning the module, learners will be able to - | | | |
| | 1. Develop a scientific approach and know the processes of research | | | |
| | Develop the competence for selecting methods and tools appropriate for research topics | | | |
| | 3. Understand concepts of statistical measures of central tendency, dispersion, variability and probability | | | |
| Module 1 (Credit 1) | Introduction to Research | | | |
| Learning Outcomes | After learning the module, learners will be able to - | | | |
| | 1. Understand process of research and its relationship to knowledge and science. | | | |
| | 2. Identify research process based on actual researches conducted. | | | |
| | 3. Recognise process of research problem formulation. | | | |
| Content Outline | The Research Process | | | |
| | a. Scientific approach to enquiry in comparison to native, | | | |
| | common sense approach | | | |
| | b. Knowledge, theory and research Role, pood and scope of research in the discipling of Home | | | |
| | c. Role, need and scope of research in the discipline of Hom Science | | | |
| | Assignment : Differentiate between investigative reporting and research report (with examples to be brought by students as | | | |
| | exercise) Steps in Research Process and Elements of Research | | | |
| | Steps in Research Process and Elements of Research a.Identifying interest areas and prioritizing | | | |
| | Selection of topic and considerations in selection | | | |
| | Selection of topic and considerations in selection b. Review of related literature and research | | | |
| | c. Variables- types of variables including discrete and | | | |
| | continuous variables Conceptual definitions and operational definitions | | | |
| | d. Concepts, hypotheses and theories e Hypothesis- meaning, | | | |
| | attributes of a sound hypothesis, Stating the hypothesis and types of hypothesis | | | |
| | Hypothesis testing- null hypothesis, sample distribution, level of significance, critical regions, Type I and Type II errors f. Research Design | | | |
| | Research questions, objectives and assumptions Ethics | | | |
| Module 2 (Credit 1) | | | | |
| Learning Outcomes | After learning the module, learners will be able to - | | | |
| | Arter rearning the module, learners will be able to - | | | |

| | t Hadanakan dan dan different burna af maaran burna duwa | | | | |
|---------------------|---|--|--|--|--|
| | 1.Understand and apply different types of research procedures. 2.Able to design research studies by knowing methods of | | | | |
| | research. | | | | |
| Content Outline | Types of Research | | | | |
| | a.Basic and Applied research, Qualitative and Quantitative | | | | |
| | research (brief review of differences) b.Historical research | | | | |
| | c.Descriptive research methods – survey, case study, correlational | | | | |
| | study, content analysis, causal-comparative research d.Analytic | | | | |
| | studies- pre-experimental, experimental research, quasi | | | | |
| | experimental research | | | | |
| | e. Qualitative research, Ethnography f. Evaluative research- general characteristics, use of | | | | |
| | f. Evaluative research- general characteristics, use of qualitative methods in enquiry | | | | |
| | Scope and importance in Home Science. | | | | |
| Madula 2 (Cradit 1) | | | | | |
| Learning Outcomes | - Sampling Techniques After learning the module, learners will be able to - | | | | |
| Learning Outcomes | | | | | |
| | Understand different techniques of sampling. Apply sampling procedures for specific research problems. | | | | |
| Contont Outline | | | | | |
| Content Outline | Sampling a. Rationale, characteristics- meaning, concept of population | | | | |
| | a. Rationale, characteristics- meaning, concept of population and sample, and utility | | | | |
| | b. Types of sampling and generalizability of results | | | | |
| | c. Probability sampling - simple random sample, systematic | | | | |
| | random sample, stratified random sampling etc - random and non- | | | | |
| | random samples, random numbers and use | | | | |
| | d. Non-probability sampling - purposive samples, incident samples, quota samples, snowball samples | | | | |
| | | | | | |
| Modulo 4 (Crodit 1) | e General consideration in determination of sample size - Data Collection Tools | | | | |
| | | | | | |
| Learning Outcomes | After learning the module, learners will be able to - | | | | |
| | 3. Know different tools of data collection. | | | | |
| | 4. Design different tools of data collection. | | | | |
| Content Outline | Tools for Data Collection | | | | |
| | a. Primary and secondary methods of data collection | | | | |
| | b. Different types of questionnaires, rating scales, check lists, schedules, attitude scales, inventories, standardized tests, | | | | |
| | interviews, observation | | | | |
| | c. Development of tools, estimation of reliability and validity of | | | | |
| | tools | | | | |
| | d. Procedure for preparation of the tool, administration of tools | | | | |
| | for data collection | | | | |
| | e. Procedure for data collection | | | | |
| | f. Planning for data analysis-coding of responses | | | | |

Assignments:

- Recognize different Types of variables.
- Hypothesis formations and research questions from Research readings students identify hypothesis/research questions – Discussion
- Construction of tools for data collection a) types of questions b) Questionnaire c) interview schedule d) observation d) scales

- For a given topic student to frame and discuss the different possibilities of methods and tools
- Differentiate between (a) basic and applied research (Exercise to be based on actual research papers published in accredited journals) (b) qualitative and quantitative research
- Based on Journal contents undertake a critical appraisal of studies/research papers and discuss types of Research with examples.

References:

- Bell, J. (1997): How to Complete Your Research Project Successfully: A Guide for First-time Researchers, UBSPD, New Delhi.
- Festinger, L. and Katz, D. (ed.) (1977): Research Methods in the Behavioral Sciences, Amerind Publishing, New Delhi.
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- Kumar, A. (2002): Research Methodology in Social Sciences, Sarup and Sons, New Delhi.
- McBurney, D.H. (2001): Research Methodology, Thomson-Wadsworth, Australia.

Semester II

2.1 Major (Core)

| Course Title | Quality Control for Textile and Apparel (Theory & Practical) (University Exam) | | | |
|---------------------|---|--|--|--|
| Course Credits | (2 + 2) Th/ Pr = 4 credit | | | |
| Course Outcomes | After going through the course, learners will be able to | | | |
| | 1. Develop an understanding of methods and techniques used to analyse textile fibers, yarns and fabrics for end use performance | | | |
| | 2. acquire knowledge and understanding of various structural properties of textiles and relate them to end use fabric performance and product | | | |
| | 3. familiarize with the different testing equipment's, their underlying principles and the international accepted standards, test methods and the language of measurement | | | |
| | 4. able to analyze and interpret the results and predict the general textile behavior performance | | | |
| | 5. To develop understanding of the importance of quality control in textile testing | | | |
| Module 1 (Credit 1) | - Introduction to Textile Testing and Fiber Analysis | | | |
| Learning Outcomes | After learning the module, learners will be able to | | | |
| | Identification of fibers and develop an understanding of importance of Textile Testing and analysis, | | | |
| | 2. Acquire knowledge national and international organizations involved in textile testing, fiber dimensions and yarn testing | | | |
| | Introduction | | | |
| | Unit 1: Importance of Textile Testing and analysis, objectives (reasons) of textile testing, uses of Testing information, Factors influencing Quality Control | | | |
| | Unit 2: Sampling, terms used in sampling, fiber sampling, yarn sampling, fabric sampling | | | |
| | Unit 3: Development of standard test methods, national and international organizations involved in textile testing, ISO Stds. and ISO – Series | | | |
| | Unit 4: Precision and accuracy of testing methods, atmospheric conditions for textile testing, temperature and humidity, measurement of humidity and moisture in textiles | | | |

| U U | iber Test Init 1: Fiber Fineness, Methods of measuring fiber. Init 2: Fiber length, methods of measuring fiber length Init 3: Fiber strength – Single fiber method, Bundle strength method Farn Test Init 1: Linear Density – Direct & Indirect system, folded yarns, methods of measuring linear density of yarns from packages and skeins and from a fabric sample Init 2: Yarn Crimp Init 3: Yarn Twist – Level of twist and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness Init 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
|---|---|--|--|
| Unit Unit Unit Ya Unit Unit Unit | Init 2: Fiber length, methods of measuring fiber length Init 3: Fiber strength – Single fiber method, Bundle strength method Fiber Strength – Single fiber method, Bundle strength method Fiber Test Init 1: Linear Density – Direct & Indirect system, folded yarns, methods of measuring linear density of yarns from packages and skeins and from a fabric sample Init 2: Yarn Crimp Init 3: Yarn Twist – Level of twist and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness Init 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
| Unit Unit Ya U U U< | Init 3: Fiber strength – Single fiber method, Bundle strength method Init 1: Linear Density – Direct & Indirect system, folded yarns, methods of measuring linear density of yarns from packages and skeins and from a fabric sample Init 2: Yarn Crimp Init 3: Yarn Twist – Level of twist and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness Init 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
| Ya U <t< th=""><th> Farn Test Unit 1: Linear Density – Direct & Indirect system, folded yarns, methods of measuring linear density of yarns from packages and skeins and from a fabric sample Unit 2: Yarn Crimp Unit 3: Yarn Twist – Level of twist and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness Unit 4: Yarn strength – Single strand method skein method, count strength product (CSP) </th></t<> | Farn Test Unit 1: Linear Density – Direct & Indirect system, folded yarns, methods of measuring linear density of yarns from packages and skeins and from a fabric sample Unit 2: Yarn Crimp Unit 3: Yarn Twist – Level of twist and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness Unit 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
| U U U U Module 2 (Credit 1) - Fa Learning Outcomes | Unit 1: Linear Density – Direct & Indirect system, folded yarns, methods of measuring linear density of yarns from packages and skeins and from a fabric sample Unit 2: Yarn Crimp Unit 3: Yarn Twist – Level of twist and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness Unit 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
| Ui | yarns, methods of measuring linear density of yarns from packages and skeins and from a fabric sample Init 2: Yarn Crimp Init 3: Yarn Twist – Level of twist and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness Init 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
| U U Module 2 (Credit 1) - Fa Learning Outcomes | packages and skeins and from a fabric sample Init 2: Yarn Crimp Init 3: Yarn Twist – Level of twist and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness Init 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
| U U Module 2 (Credit 1) - Fa Learning Outcomes | Init 2: Yarn Crimp Init 3: Yarn Twist – Level of twist and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness Init 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
| U Module 2 (Credit 1) - Fa Learning Outcomes | measuring twist, yarn evenness and methods of assessing evenness Init 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
| Module 2 (Credit 1) - FaLearning OutcomesAft | evenness Init 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
| Module 2 (Credit 1) - FaLearning OutcomesAft | Init 4: Yarn strength – Single strand method skein method, count strength product (CSP) | | |
| Module 2 (Credit 1) - Fa | strength product (CSP) | | |
| Learning Outcomes Aft | | | |
| Learning Outcomes Aft | | | |
| | ter learning the module, learners will be able to | | |
| | ter learning the module, learners will be able to | | |
| 1. | | | |
| | . Carry out Testing and Evaluation of Fabric and Garment | | |
| | i carry out resting and Evaluation of rubne and currient | | |
| 2. | . Analyze and interpret the results of fabric and garment testing's | | |
| | | | |
| Content Outline Fa | Fabric and Garment Test | | |
| U | Init 1: Fabric and Seam Strength | | |
| Te | erminologies and definitions like force units, Breaking strength | | |
| | nd Tensile strength, Stress, specific stress, Tenacity, Elongation, | | |
| | | | |
| | | | |
| • | Tensile Strength: Factors affecting tensile testing, fabric | | |
| | characteristics affecting tensile properties, tensile testing mach | | |
| | and their working principles Breaking strength – Ravelled strip method. Cut strip method | | |
| | | | |
| • | and their working principles Breaking strength – Ravelled strip method, Cut strip method and Grab method | | |
| | Breaking strength – Ravelled strip method, Cut strip method and Grab method Tearing Strength – Tongue tear test, Trapezoid method, Elmendorf | | |
| • | Breaking strength – Ravelled strip method, Cut strip method and Grab method Tearing Strength – Tongue tear test, Trapezoid method, Elmendorf tear test | | |
| • | Breaking strength – Ravelled strip method, Cut strip method and Grab method Tearing Strength – Tongue tear test, Trapezoid method, Elmendorf tear test Bursting strength – Hydraulic / Diaphragm bursting test Seam strength and yarn slippage in woven fabrics at seams, seam | | |
| • | Breaking strength – Ravelled strip method, Cut strip method and Grab method Tearing Strength – Tongue tear test, Trapezoid method, Elmendorf tear test Bursting strength – Hydraulic / Diaphragm bursting test Seam strength and yarn slippage in woven fabrics at seams, seam slippage tests for woven and upholstery fabrics, needle cutting in a | | |
| • | Breaking strength – Ravelled strip method, Cut strip method and Grab method Tearing Strength – Tongue tear test, Trapezoid method, Elmendorf tear test Bursting strength – Hydraulic / Diaphragm bursting test Seam strength and yarn slippage in woven fabrics at seams, seam | | |
| • | Breaking strength – Ravelled strip method, Cut strip method and Grab method Tearing Strength – Tongue tear test, Trapezoid method, Elmendorf tear test Bursting strength – Hydraulic / Diaphragm bursting test Seam strength and yarn slippage in woven fabrics at seams, seam slippage tests for woven and upholstery fabrics, needle cutting in a | | |
| • | Breaking strength – Ravelled strip method, Cut strip method and Grab method Tearing Strength – Tongue tear test, Trapezoid method, Elmendorf tear test Bursting strength – Hydraulic / Diaphragm bursting test Seam strength and yarn slippage in woven fabrics at seams, seam slippage tests for woven and upholstery fabrics, needle cutting in a fabric, sew ability of fabrics and seam efficiency. | | |
| | Breaking strength – Ravelled strip method, Cut strip method and Grab method Tearing Strength – Tongue tear test, Trapezoid method, Elmendorf tear test Bursting strength – Hydraulic / Diaphragm bursting test Seam strength and yarn slippage in woven fabrics at seams, seam slippage tests for woven and upholstery fabrics, needle cutting in a fabric, sew ability of fabrics and seam efficiency. Init 2: Fabric Stiffness, Handle and Drape – Fabric Stiffness and Handle – definitions, methods of measuring fabric stiffness - Shirley stiffness test, Hanging loop method Drape – | | |
| | Breaking strength – Ravelled strip method, Cut strip method and Grab method Tearing Strength – Tongue tear test, Trapezoid method, Elmendorf tear test Bursting strength – Hydraulic / Diaphragm bursting test Seam strength and yarn slippage in woven fabrics at seams, seam slippage tests for woven and upholstery fabrics, needle cutting in a fabric, sew ability of fabrics and seam efficiency. Init 2: Fabric Stiffness, Handle and Drape – Fabric Stiffness and Handle – definitions, methods of measuring fabric | | |
| U Te ar St re | Unit 1: Fabric and Seam Strength Terminologies and definitions like force units, Breaking strength and Tensile strength, Stress, specific stress, Tenacity, Elongation, Strain, Extension, Extension percentage, Gauge length, Elastic ecovery, Force and elongation curve | | |

| [] | |
|----|--|
| | advantages of giving resin treatment to fabrics, fabric characteristics affecting wrinkle resistance, methods of measuring crease recovery – Total test, Shirley crease recovery test, visual comparison method i)Kawabata Evaluation system (KES) for fabrics ii)Fabric Assurance by Simple Testing (FAST) system. |
| | Unit 3: Fabric / Garment Serviceability – |
| | Definitions of terms – serviceability, wear durability Snagging – definition, methods for testing snag resistance of fabric Pilling – definition, causes of pilling, stages in formation of pilling, remedies for reducing pilling, methods for testing pilling resistance of fabrics – brush and sponge pilling test, random tumble pilling test Abrasion – definition, types of abrasion, properties affecting abrasion resistance, Common abrasion instruments and methods used for evaluating abrasion method, flexing and abrasion method, rotary platform method, Accelerator method, edge and fold abrasion method (all in brief), assessment of abraded sample |
| | Unit 4: Wear Comfort of Clothing – Air Permeability – definitions, air resistance, air porosity, fabric properties and air permeability, methods for measuring air permeability of fabrics - Shirley air permeability tester, Gurley Densometer, Frazier air flow tester |
| | Unit 5: Water Absorption and Water Repellency of Fabrics – |
| | Water absorption, methods of measuring amount of water absorbed - static Immersion test Wettability of fabrics - definition, methods used or testing wettability of fabrics Sinking time test of fabrics Definitions of waterproof shower proof, water repellent fabrics. Methods for measuring the water repellency of fabrics - Spray test, Bundesmann test, Drop Penetration test, WIRA shower test, Hydrostatic head test |
| | Unit 6: Dimensional Stability – Definition, Types of Shrinkage – Relaxation, Swelling, Felting, Thermal / Contraction, growth shrinkage in knits Methods used for evaluating dimensional change in fabrics and garments, dimensional change in washing and drying conditions in home laundering, commercial laundering Dimensional Restoration of Fabrics Durable press evaluation of Fabrics and Apparel |
| | Unit 7: Colour Fastness – Introduction, colour fastness test methods to washing, dry cleaning, light, crocking, perspiration, heat (hot pressing) |

| Module 3 (Credit 1) - | Credit 1) - Practical Yarn Testing Techniques | | | |
|---|--|--|--|---|
| Learning Outcomes | After learning the module, learners will be able to | | | |
| | 3. Carry out Physical yarn testing like linear density, crimp, twist, evenness, strength etc. | | | |
| | 4. Analyze and define various physical parameters of yarn testing. | | | |
| Content Outline | Practical | | | |
| | Yarn Testing Measuring linear density of yarn from yarn package (skein method), Yarn Crimp in woven fabrics Yarn twist - i) Single spun yarn and ply yarn, ii) twist factor Yarn evenness Yarn strength test - i)Single strand test and ii)skein / lea | | | |
| | strength test and CSP | | | |
| Module 4 (Credit 1) - | Practical Fabric Testing and Evaluation | | | |
| Learning Outcomes | After learning the module, learners will be able to | | | |
| | Carry out physical fabric testing Fabric Strength Tests like Breaking force and Elongation, Tearing Strength, Bursting Strength and Seam Strength test | | | |
| | 2 Carry out Evaluation of fabric handle tests Fabric / Garment Serviceability tests, colour fastness tests. | | | |
| Practical Fabric and Garment Testing | | | | |
| | | | | Strength Properties of Textile and Apparels – |
| | i) Fabric Strength Tests – Breaking force and Elongation of fabrics (Strip and grab test) Tearing Strength of woven and non-woven fabrics Bursting Strength of knitted fabrics. | | | |
| | ii) Seam Strength test for woven and knit fabrics- Resistance to Slippage of yarns in woven fabrics using a std. seam Failure in sewn seams of woven and knit fabrics | | | |
| | Evaluation of fabric handle – Fabric Stiffness (bending length) Fabric Drape Crease recovery – oRecovery angle method oAppearance method. | | | |
| | Fabric / Garment Serviceability – •Pilling Test | | | |

| | • | Abrasion Test |
|--|---|--|
| | • | Air Permeability |
| | • | Thickness Test – i) Woven and Knit fabrics |
| | • | Fabric Count and Cover factor - Woven Fabrics |
| | • | Fabric Count (wales and courses / inch) and Stitch |
| | • | Mass / unit area (weight) of woven fabrics |
| | • | Fabric Density Ends & Picks |
| | • | Evaluation of Color fastness of dyed fabrics / apparels to – |
| | | Artificial Light |
| | • | Crocking |
| | • | Perspiration |
| | • | Washing in launder meter |
| | • | Heat: Hot Pressing |
| | • | UV protection and UV resista |
| | | |

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

- 3. Visit to textile testing organization.
- 4. Report writing on recent developments in textile testing.

References

- 1. Billie J. Collier and Helen E. Epps.1998. Textile Testing and Analysis, Prentice Hall, New Jersey
- 2. Brackenbury Terry. 2013. Knitted Clothing Technology, Blackwell Science Ltd.
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- 4. Groover and Hamby.2011. Handbook of Textile Testing and Quality Control 5.J. E. Booth.1968. Principles of Textile Testing, Newness Butterworth, London.
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2.2 Major (Core)

| Course Title | Garment Design through Draping (Practical) |
|---------------------|---|
| | (College Exam) |
| Course Credits | 4 Pr |
| Course Outcomes | After going through the course, learners will be able to |
| | Draping of foundation on dress form: basic bodice, basic skirt and basic sleeve |
| | 2. Dart variations, tucks, pleats and gathers |
| | 3. Neckline, bodice yolk and waist line variations |
| | 4. Princes lines, cowels and its variations |
| | 5. Variations of skirts, collars and sleeves |
| Module 1 (Credit 1) | - Draping Foundations |
| Learning Outcomes | After learning the module, learners will be able to |
| | Acquire knowledge about dress form, draping tools and equipment's. |
| | 2. Prepare of muslin for draping and draping of foundation on dress form. |
| Content Outline | a) Introduction to dress form, draping tools and equipment required (including pressing equipment for draping) b) Preparation of muslin for draping – grain, tearing, pressing, seam allowance c) Draping of foundation on dress form |
| | Basic Bodice (Front & Back) – Preparation of muslin, shaping steps, marking, truing, check fitting Basic Skirt (Front & Back) – Preparation of muslin, shaping steps, marking, truing, check fitting of the finished skirt Basic Sleeve (Front & Back) – Preparation of muslin, shaping steps, marking, truing, check fitting |
| Module 2 (Credit 1) | - Dart & Style Variations |
| Learning Outcomes | After learning the module, learners will be able to |
| | 5. Drape dart variations on drape form. |
| | 6. drape Tucks, pleats, gathers and Neckline variation, Bodice yoke variations, Waistline variations and Princess line Bodice. 7. Drape cowl on dress form. |

| Content Outline Module 3 (Credit 1) - | A. Dart variation using basic (front) Waistline dart, French dart, side seam dart, armhole dart, flange dart, shoulder dart, neckline dart, bust line (center front) dart, combination of any 2 darts (one pattern) Sewing and Pressing darts B. Tucks, pleats and gathers – one pattern each C. Neckline variation (front) draping of various necklines using style tape (back) – lower back neckline (one pattern) Halter – Preparation of muslin and draping steps for different halter variations, checking the fit D. Bodice yoke variations F. Princess line Bodice – Variations – Preparation for muslin for front and back, draping steps for front and back, check the fit G. Cowls Basic cowls – preparation of fabric, draping steps, checking the fit ii) Cowl variation – draped, pleated, gathered |
|--|---|
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Drape various types of skirts on drape form. |
| Content Outline | Skirts – Variations like (any three) |
| | a) One-piece basic skirt with darts |
| | b) Eased / A-line skirt |
| | c) Flare skirt |
| | d) Skirt with hip yoke |
| | e) Circular skirt |
| | f) Wrap skirt |
| | g) Tiered skirt |
| | h) Any other |
| Module 4 (Credit 1) - | Collar Design |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Drape various types of collars on drape form. |

| Content Outline | •Collars - |
|-----------------|------------------------------|
| | a) Open / Convertible collar |
| | b) Mandarin collar |
| | c) Sailor collar |
| | d) Turtle neck |
| | e) Any other |

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

- 5. To drape and stitch shaped one-piece dress or two-piece dress
- 6. To develop using draping method Basic body (Torso foundation) for Knitted Tops (like T-Shirts or Camisoles using cotton knit or any other fibre type fabric)
- 7. Freehand draping
- 8. Avant-garde
- 9. Draping styles and video
- 10. Sustainable Apparel

References

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- 2. Helen Joseph, Armstrong, Draping for Apparel Design Fairchild Publication, New York
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- 5. Natalie Bray, Dress Fitting (2nd Ed.) Blackwell Science
- 6. Natalie Bray, More Dress Pattern Designing (4th Ed.) Blackwell Science
- 7. Nora Mac Donald Prentice Hall, Principles of Flat Pattern Design (2nd Ed.) New Jersey
- 8. Popin, Harriet, Modern Pattern Design, New York
- 9. Sheldon Maratha Gene, Design through Draping, U.S.A. Burgers Publishing Company
- 10. Strickland Gertude, A Tailoring Manual, New York, Macmillan Company

2.3 Major (Core)

| Course Title | Apparel Merchandising (Theory) |
|---------------------|--|
| | (University Exam) |
| | |
| Course Credits | 4 (Th) |
| Course Outcomes | After going through course, learners will be able to |
| | Students will able to get knowledge about fashion marketing & merchandising. students will able to understand the concept of markets, consumers, marketing. |
| | students will able to select the material and costing of goods. |
| Module 1 (Credit 1) | - Marketing vs. Merchandising |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1.Students will able to differentiate between marketing and merchandising. |
| | Students will able to know about different kinds of marketing & merchandising techniques. |
| | Students will able to identify different types of window display & lighting techniques. |
| Content Outline | Principles of Marketing Functions of Fashion Merchandising & Marketing Role of Merchandiser in Apparel Industry Merchandising in Apparel Industry & Merchandising Concepts & Terminology Visual Merchandising & Store Image Elements of Merchandise Display Types of Window Display Lighting Techniques & Visual Presentation |
| Module 2 (Credit 1) | - Apparel Production and Buying |
| Learning Outcomes | After learning the module, learners will be able to |
| | Students will be able to know about apparel production process. Students will be able to analyse current fashion trends in |
| | the marketplace. 3. Students will able to gain knowledge about fashion buying process. |
| | 4. Students will able to understand the vendors selection process. |

| Content Outline | Apparel Production & Quality Management |
|-----------------------|---|
| | Fashion Buying |
| | Role of Fashion Buyer |
| | Predicting Fashion Trends |
| | Fabric and Garment Sourcing and Digital Sourcing |
| | Working With Vendors |
| Module 3 (Credit 1) | - Product Line and Resources |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Students will able to develop a product line. |
| | Students will able to understand the role of PPC in apparel industry. |
| | 3. Students will able to analyse and select the resources. |
| Content Outline | Production, Planning & Control |
| | The Fashion Merchandising Assortment Plan |
| | Working with Budget. |
| | Analysing And Selecting Resources. |
| Module 4 (Credit 1) - | Costing and Negotiation |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Students will able to understand the concept of apparel costing. |
| | Students will able to identify the different types of discounts. |
| | 3. Students will able to understand negotiation skills. |
| Content Outline | Apparel Costing |
| | Definition of Cost & Other Common Terms. |
| | Discounts-Types |
| | Negotiations & Specifications with Vendors and |
| 1 | Customers |

Assignments/ Activities towards Comprehensive Continuous

Evaluation (CCE)

- 1. Power point presentations
- 2. Quiz
- 3. Industry visits
- 4. Activity: window display
- 5. Assignment: How to improve digitalization in merchandising (Group Discussion)

References

- 1. Chapman, S. N. (2006). *Fundamentals of Production, Planning & Control*. South Asia: Dorling Kindersley (India) Pvt. Ltd. and Pearson Education.
- 2. Krishnakumar, M. (2011). *Apparel Coasting- A Functional Approach.* Abhishek Publication.
- 3. Morgan, T. (2016). *Visual Merchandising- Window & in Store Displays for Retail* (3rd ed.). Laurence King.

- 4. Nayak, R. & Padhye, R. (2015). *Garment Manufacturing Technology.* 80 HighStreet, Sawton, Cambridge: Woodhead.
- 5. Rathinamoorthy, R. & Surjit, R. (2018). *Apparel Merchandising*. New Delhi, India: Woodhead.
- 6. Rosenau, J. A. & Wilson, D. L. (2014). *Apparel Merchandising- The Line Starts Here* (3rd ed). Broadway, New York: Bloomsbury.
- William, P., Cannon, J. P., Cannon, J., & McCarthy, E. J. (2011). Essentials of Marketing. <u>McGraw-Hill Education</u>.
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2.4 Major (Core)

| Course Title | International Embroideries and Paintings (Practical) (College Exam) |
|---------------------|---|
| Course Credits | 2 (Pr) |
| Course Outcomes | After going through course, learners will be able to |
| | Students will able to gain knowledge of significant development in the production of textile in the world. Students will able to understand the International Embroideries and Textiles of historical significance that influenced other cultures and civilizations. Students will able to focus on design details, creation of styles and accessories inspired from traditional motifs till the present. Students will able to identify international painted |
| Madula 1 (Cradit 1) | textiles. |
| | - International Embroideries |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1.Students will able to develop a sound attitude and interest regarding embroidery, styles and patterns of international Embroideries. |
| | 2. Students will able to identify the different stitches and colour combinations used in international embroideries. |
| | Students will able to develop products with the help of various embroidery stitches. |
| Content Outline | Introduction to International Embroidery with respect to History, Motifs, Colors combinations and its application area: |
| | Countries with traditional embroideries |
| | Ukraine- Ukrainian embroidery Palestine- Tatreez and Tahriri Tunisia- Tunisian embroidery Serbia- Serbian embroidery Japan- Sashiko Spain: Spanish embroidery Brazil: Brazilian embroidery Turkish: gold thread work Bulgaria: Bulgarian folk art France- Tambour Embroidery India: Kutch and Chikankari |
| Module 2 (Credit 1) | - International Painted Textiles |
| Learning Outcomes | After learning the module, learners will be able to |

| | 1 Chudente will able to develop a second attill 1 |
|-----------------|--|
| | 1.Students will able to develop a sound attitude and |
| | interest regarding embroidery, styles and patterns of international paintings. |
| | Students will able to identify different types of paintings around the world. |
| | Students will able to develop the products with the help of using various painting techniques. |
| Content Outline | International Painted textiles with respect to their origin, styles, Motifs used and Color combinations. |
| | Countries of Origin: |
| | 1. Japan: Guohua |
| | 2. China: Bamboo Painting |
| | 3. India: Kalamkaari/Madhubani |
| | 4. Egypt: Egypt art |
| | 5. Africa- Tribal art painting |

Assignments/ Activities towards Comprehensive Continuous Evaluation

(CCE):

- 1. Product development by using Traditional Embroideries.
- 2. Product development by using Traditional Paintings.

References:

- 1. Bah, S. (2015). Madhubani Art. Museum of Sacred Art.
- 2. Carr, H & Pomeroy, J (2006). *Fashion Design and Product Development*. Blackwell Science Ltd, Carsington road, Oxford UK.
- 3. Dhamija, J. (2004). Asian Embroidery. Abhinav Publications.
- 4. Gray, J. G. (2009). *Traditional Japanese Embroidery*. Wellwood, north farm Rd., Tunbridge wells, Kent: Search Press Limited.
- 5. Liao, B. (2002). *Traditional Painting- Culture of China*. Foreign Languages Press.
- 6. Miller, M. (2017). *Traditional Chinese Art- An Introduction*. CreateSpace.
- 7. Romani, S. (2007). *Kalamkari & Traditional Design Heritage of India*. Wisdom Tree.
- 8. Smita, K. (2012). '*Kashmir to Kanyakumari Indian Embroidery'*, Author House publication.
- 9. Stanton, Y. (2008). Ukrainian Drawn Thread- Embroidery Merech. Vetty Creation.
- 10. Tyagi, A. (2008). *Let's Know Handicrafts of India*. U.K.: ibs Books.
- 11. Wyszynski L. (2012). *The Complete Photo Guide to Needlework*. Creative.

2.5 Major (Elective)

| Course Title | Advance Fashion Illustration (Practical) |
|---------------------|---|
| | (College Exam) |
| Course Courting | 4 (D) |
| Course Credits | 4 (Pr) |
| Course Outcomes | After going through course, learners will be able to |
| | Students will able to focus on design details, creation of styles and rendering techniques using different media and themes. |
| | 2. Students will able to interpret and analyze forecast trends to design fashion communication in sync with the forecast. |
| | 3. Students will able to understand the importance of forecasting in creating a fashion communication campaign for the forthcoming fashion collections. |
| Module 1 (Credit 1) |) - Fashion Figures and Rendering |
| Learning Outcomes | After learning the module, learners will be able to |
| | 1. Students will able to draw fashion figures by understanding body proportion. |
| | Students will able to enhance their rendering skills using different color medium. |
| | 3. Students will able to |
| Content Outline | Sketching of different action croquis (front, back and side view) Manual/CAD |
| | Basic Rendering Techniques: - |
| | Colour matching using different mediums |
| | Stripes, Checks, gingham and plaids |
| | Patterns and textures, reducing a print, Shading. |
| | CAD: - Introduction toTools for creating motifs. Motifs repetition for print creation. Creating garment flats and placing designs Croqui creation and garment designing on croqui. Drawing croquis and designing garments on them. |

| Module 2 (Credit 1) - Garment and Detail Sketching | |
|--|--|
| Learning Outcomes | After learning the module, learners will be able to |
| | |
| | Students will able to draw different necklines, collars, sleeves, etc. |
| | Students will able to explore and design different types of garments such as, skirts, pant, blouse, etc. according to market trends. |
| Content Outline | Sketching of Garments and Garments Details (Manual/ CAD): - 1. Necklines and collars |

| | 2. Sleeves details |
|---------------------|--|
| | 3. Skirts and pants |
| | 4. Blouses, coats and jackets |
| | 5. Pleats, cowls and cascades |
| | 6. Yokes and underskirts |
| | Sketching of Accessories: - |
| | Hats and headgears |
| | Footwear Bags and purses |
| | Jewellery |
| | Any other accessories |
| Module 3 (Credit 1) | - Accessory Design and Ideation |
| | |
| Learning Outcomes | After learning the module, learners will be able to |
| | |
| | 1. Students will able to explore different fashion accessories |
| | and footwear |
| | 2. Students will able to develop an approach towards |
| | ideation. |
| | 3. Students will able to develop different wears using |
| | garments details. |
| Content Outline | Sketching of 6 theme wear using following |
| | (Manual/CAD) |
| | |
| | 1. Necklines and collars |
| | 2. Sleeves details |
| | 3. Skirts and pants |
| | Blouses, coats and jackets Pleats, cowls and cascades |
| | 6. Yokes and underskirts |
| | 7. Hats and headgears |
| | 8. Footwear Bags and purses |
| | 9. Jewellery |
| | Any other accessories |
| | |
| | 1 |

| Module 4 (Credit 1) - Theme-Based Line Development | |
|--|--|
| Learning Outcomes | After learning the module, learners will be able to |
| | 1.Students will able to gain knowledge about different theme required in the field of fashion. |
| | Students will able to draw different clothing line base on selected or particular themes |
| | Students will able to conceptualize their ideas of different accessories with the garments |
| Content Outline | Based on fashion forecast, develop a mood board and colour board and design a line of 6 ensembles for women's wear – with reference to Sourcing of raw materials |
| | Developing line based on the fabric and theme selected Spec sheet study Sampling Garment analysis Costing - construction of garments |
| | Line presentationUse of sale promotion material |

Assignments:

1.Development of one theme-based design apparel along with accessories.

References:

- 1. Abling Bina, Fashion Sketchbook 2023, 8th edition, Fairchild Publishers, New York.
- 2. Anna Kiper, Fashion Illustration: Inspiration and Techniques, 2016, David and Charles.
- 3. David Downtan, Master of Fashion Illustration 2012, Laurence King Publication.
- 4. Gwyneth Holland, Rae Jones, Fashion Trend Forecasting 2017, Laurance King Publishing.
- 5. Harold Carr, John Ponery, Fashion Design and Product Development 2009, Willy India Pvt. Ltd.
- 6. Holly Nichol, Modern Fashion Illustration 2021, centennial books.
- 7. Lorynn R. Divita, Fashion Forecating 2015, Fairchild book.
- 8. Stuart Mckenzie, Creative Fashion Ilustration 2020, Bloomsbury Publishing.
- 9. Zeshu Takamura, Fashion Illustration Techniques: Super Reference Book for Biginners 2012, packport Publisher.2.6

2.6 OJT

Course outcomes

Learners will be able to

- Improve their master professional soft skills such as communication, punctuality and time management.
- Practice and improve their industry skills while also learning how to work.

• Start to build a professional network that can be a resource for the student.