

B.Sc. (Fashion & Apparel Design)III & IV Semester Syllabus

(2025-2026 onwards)

B.Sc. (FASHION AND APPAREL DESIGN)

SEMESTER III

| | - Instruction | | Durationof | of Marks | | | | |
|------------------|---|----------------------|------------|----------------|----|------|-------|---------|
| CODE | Subjects | Theory/ Practical | Hrs./week | Exam (Hrs.) | IA | Exam | Total | CREDITS |
| L1 | Language I | Theory | 4 | 3 | 20 | 80 | 100 | 3 |
| L2 | Language II | Theory | 4 | 3 | 20 | 80 | 100 | 3 |
| FAD 3.1 T | Textile Dyeing and Printing | Theory | 4 | 3 | 20 | 80 | 100 | 3 |
| FAD 3.1 P | Textile Dyeing and Printing | Practical | 3 | 3 | 10 | 40 | 50 | 2 |
| FAD 3.2 T | Fashion Art and Design | Theory | 4 | 3 | 20 | 80 | 100 | 3 |
| FAD 3.2 P | Fashion Art and Design | Practical | 3 | 3 | 10 | 40 | 50 | 2 |
| FAD 3.3 T | Pattern Making and Garment Construction-II | Theory | 4 | 3 | 20 | 80 | 100 | 3 |
| FAD 3.3 P | Pattern Making and Garment Construction-II | Practical | 3 | 3 | 10 | 40 | 50 | 2 |
| FAD 3.4 T E-1 | A. Fashion Forecasting & Trend Analysis (or) B. Home Textiles | Theory | 2 | 1.5 | 10 | 40 | 50 | 2 |
| | | | | Total | | 700 | | 23 |

SEMESTER IV

| | Subjects | Paper Theory/ Practical | Instruction hrs./week | Duration of Exam (hrs.) | Marks | | | |
|------------------|--|-------------------------------|--------------------------|-------------------------------|-------|------|-------|---------|
| CODE | | | | | IA | Exam | Total | CREDITS |
| L1 | Language I | Theory | 4 | 3 | 20 | 80 | 100 | 3 |
| L2 | Language II | Theory | 4 | 3 | 20 | 80 | 100 | 3 |
| FAD 4.1 T | History of Costumes and Traditional Textiles | Theory | 4 | 3 | 20 | 80 | 100 | 3 |
| FAD 4.1 P | History of Costumes and Traditional Textiles | Practical | 3 | 3 | 10 | 40 | 50 | 2 |
| FAD 4.2 T | Textile and Apparel Testing | Theory | 4 | 3 | 20 | 80 | 100 | 3 |
| FAD 4.2 P | Textile and Apparel Testing | Practical | 3 | 3 | 10 | 40 | 50 | 2 |
| FAD 4.3 T | Apparel Production | Theory | 4 | 3 | 20 | 80 | 100 | 3 |
| FAD 4.3 P | Apparel Production | Practical | 3 | 3 | 10 | 40 | 50 | 2 |
| FAD 4.4 T E-2 | A. Boutique Management (or) B. Fashion Retail Marketing and Merchandising | Theory | 2 | 1.5 | 10 | 40 | 50 | 2 |
| FAD 4.5 P | ComputerAided Design | Practical | 3 | 3 | 10 | 40 | 50 | 2 |
| | | | | Total | | 750 | | 25 |

III Semester

B.Sc. Fashion and Apparel Design

FAD 3.1 T – Textile Dyeing and Printing (Theory)

| FAD 3.1 T | Exam Hours: 03 Hrs. |
|-----------------------------|-------------------------|
| Total Hrs.: 56 | Exam Marks: 80 |
| Number of Theory Credits: 3 | Internal Assessment: 20 |

Course outcomes: On successful completion of the course, the students will be able to Explore the diverse applications and behavior of different classes of dyes on various textile substrates. Understand the operation, mechanism, and usage of dyeing machines in textile material processing. Select suitable dyes, chemicals, and print recipes for different textile printing techniques. Apply various chemical and mechanical finishing treatments using appropriate finishing agents. Integrate theoretical knowledge into practical applications in real-world textile dyeing, printing, and finishing scenarios.

| Unit-1 | Hrs. |
|--|------|
| Introduction to wet processing - Terminologies, sequence of wet processing operations for | 14 |
| cotton, silk, wool, synthetic and blended fabrics. | |
| Preparatory and dyeing process of cellulosic fibers singeing, desizing, scouring, | |
| bleaching, mercerization - objectives, recipe, machinery used and the process. Preparation | |
| for silk - Degumming and bleaching of silk - objectives, recipe, machinery used and | |
| process. Preparation for wool - Scouring, carbonizing of wool - objectives, recipe, | |
| machinery used and process. | |
| Unit-2 | |
| Dyeing – Classification of Dyes, dyeing process using natural, direct, reactive, vat and | 14 |
| Sulphur dyes. | |
| Dyeing process of cellulosic (Cotton) using reactive dyes and basic dyes and protein fibers | |
| (wool and silk) - using reactive and acid dyes. | |
| Dyeing of synthetic fibers using disperse dyes. | |
| Methods of dyeing - Fiber - stock, dope, Tow, Yarn - skein, package, beam, Fabric -beck, | |
| jig, jet, pad-batch/continuous, Piece/Union, Garment dyeing. | |
| | |
| Unit-3 | |
| Printing - Introduction, printing styles - direct style, discharge style and resist style. | 14 |
| Methods - block, stencil, screen, roller, duplex, rotary, transfer printing, batik, tie and dye, | |
| digital printing. Minor printing methods - flocking, marbling, warp printing and air brush printing. | |
| Finishes – Introduction, importance, classification of finishes - permanent and temporary | |
| finishes, acid and alkali finishes. Basic or routine finishes - stiffening, calendaring, weighing, tentering, mercerization. | |
| Aesthetic finishes - special calendaring, moiré embossed surface, glazed finish, softening, | |
| crease resistant, shrinkage control and fading finishes. Functional finishes - Antimicrobial, | |
| antistatic, flame resistant, mothproof, water repellent, waterproof, and soil-release | |
| finishes. | |
| minsiles. | |
| Unit-4 | · |
| Clothing care and maintenance - stain removal - classification of Stains - protein, oil- | 14 |
| based, dye or ink, grease, mud or dirt, combination stains and their removal methods, | |
| various solvents used. Soaps and detergents. | |
| | |

Care of textiles & fabrics - principles of laundering, methods of washing - hand wash, machine wash and dry cleaning.

Environmental concerns and social responsibility - Introduction to environmental issues and control remedies for air pollution, water pollution, and solid waste pollution. Eco-friendly processing of textiles in the production of textiles. Corporate social responsibility in the textile industry.

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- 3. Hall A J, "The standard Handbook of Textiles", Woodhead Publication, 2004.
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- 6. Mahapatra NN, "Textile Dyeing", Woodhead Publishing India Pvt. Ltd., 2018.
- 7. Murphy W S, "Textile Finishing", Abhishek Publishing, 2007.
- 8. Peters Elsevier R.H, "Textile Chemistry", Vol. III- The physical chemistry of dyeing-, Amsterdam, The Netherlands 1975
- 9. Roy Choudhury A K, "Principles of Textile Finishing", Woodhead Publishing 2017
- 10. Shenai V. A "Technology of Textile Processing-Vol. III"-A Shenai-Sevak Publications-1975
- 11. Smith J E, "Textile Processing Printing, Dyeing", Abhishek Publishing, 2003.
- 12. Susheela Dantyagi, "Fundamentals of Textiles and their Care", Orient Black Swan, 1980.
- 13. Wignate I B, "Textiles Fabrics & their Selection", Prentice Hall, 6th edition, 1970.
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- 15. Web Source: https://archive.nptel.ac.in/courses/116/102/116102054/

III Semester B.Sc. FAD 3.1 P - Textile Dyeing and Printing (Practical)

| FAD 3.1 P | Exam Hours: 03 Hrs. |
|--------------------------------|-------------------------|
| Total Hrs.: 42 | Exam Marks: 40 |
| Number of Practical Credits: 2 | Internal Assessment: 10 |

| Unit – 1 | Hrs. |
|--|------|
| Preparatory process - desizing, scouring, bleaching and mercerization of cotton yarn/ fabric | 12 |
| Degumming and bleaching of silk yarn / fabric, scouring and bleaching of wool fiber/ yarn. | |
| Unit − 2 | |
| | |
| Dyeing of cellulosic yarn/ fabric by natural, direct, reactive and vat dyes. | 12 |
| Dyeing of protein yarn/ fabric by natural, acid and reactive dyes. | 12 |
| | |
| Unit – 3 | |
| Printing of fabric using block and screen using pigment, reactive and direct dyes. | 10 |
| Resist style of dyeing /printing - tie and dye, shibori, batik. | 12 |
| | |
| Unit – 4 | |
| Removal of oil, grease, blood, coffee and beverages stains | 6 |
| | |

III Semester

B.Sc. Fashion and Apparel Design

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

FAD 3.2 T – Fashion Art and Design (Theory)

Objectives

design ideas.

| FAD 3.2 T | Exam Hours: 03 Hrs. |
|-----------------------------|-------------------------|
| Total Hrs.: 56 | Exam Marks: 80 |
| Number of Theory Credits: 3 | Internal Assessment: 20 |

1. Identify and apply various sources of inspiration and research methods to generate original

2. Apply design principles and elements to develop cohesive design collections grouped by

product category and themes. 3. Create traditional, digital, or mixed media scrapbooks to organize and document design research, inspirations, and development. 4. Apply market research techniques, including consumer behavior analysis, sales data evaluation, and trend analysis to forecast future design directions. 5. Promote sustainable fashion practices that address environmental, social, and economic concerns, fostering consumer awareness and demand for ethical fashion. Unit-1 Hrs. Fashion Research - Introduction, types, and source of research for design collection. 15 Inspiration for fashion designers. Introduction to concepts and process of fashion portfolio designing. Presentation boards - Definition and importance, types of boards - concept boards, product development, forecast and planning. Presentation techniques - preparation of portfolio for a design collection-inspiration, mood, color, client, texture and fabric swatch board, design collection board. Design Development - Groups, items, design elements, design principles, sketching ideas. Sample garment - The first pattern, the designer work sheet and line selection. Introduction to Scrapbook - History and evolution of scrapbook, Types of scrapbooks (traditional, digital, mixed media), Setting up a scrapbook workspace. Scrapbook Techniques and Tools - Adhesives, embellishments, and other materials, Photo editing and printing, Journaling and writing techniques. Unit-2 15 Fashion Forecasting- Introduction, objectives, importance, Theories, Elements and Principles of forecasting. Steps in forecasting, Major areas of forecasting, Advantages and limitations in forecasting, role of fashion forecaster, long-term and short-term forecasting. Fashion forecasting process - market research- consumer research, shopping, sales records, evaluating the collections. Fashion services and resources. Colour forecasting- steps in color forecasting - color forecast reports. Dimensions of color, psychology of colours – marketing, branding and consumers. Unit-3

| Unit-4 | |
|---|----|
| sketching flats freehand and proportion for flats for women, men, and children. | |
| Flat Sketch - Introduction, importance and application. Method of drawing, styling, | |
| importance and application. Study of illustrative techniques - three dimensional views. | |
| elements and principles of design. Figure foreshortening and figure composition - its | |
| Designing garments based on figure types, garments to create optical illusion through | 15 |

11

Sustainable Fashion Design - Introduction, definition, significance. principles of sustainable fashion design - designing for longevity and durability, timeless aesthetics vs. trend-driven fashion, minimalism in design and conscious consumption, designing for recyclability and biodegradability, up cycling and repurposed fashion design - creative reuse of dead stock and waste fabrics, DIY and handcrafting techniques for sustainability. Minimalist and functional fashion design - capsule wardrobe concept and slow fashion aesthetics, functional clothing with adaptive features, minimalist silhouettes to optimize fabric usage, transformable and multifunctional fashion design - convertible and multiwear garments, detachable and interchangeable fashion elements.

Clothing designed for various occasions and climates, adaptive fashion for sustainability and inclusivity. Benefits of sustainable fashion design - environmental benefits, social benefits, economic benefits, consumer awareness and market demand for sustainability.

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- 2. Brown, Carol, "Fashion Design: Process, Innovation and Practice", 2nd ed., Laurence King Publishing, 2013, ISBN: 9781780670535
- 3. Hethorn, Janet, and Connie Ulasewicz, editors, "Sustainable Fashion: What's Next? A Conversation About Issues, Practices, and Possibilities", 2nd ed., Fairchild Books, 2015, ISBN: 9781501395374
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- 5. Kiper, Anna, "Fashion Portfolio: Design and Presentation", Batsford, 2011, ISBN: 9780713490659
- 6. Mendes, Valerie, and Amy de la Haye, "20th Century Fashion", Revised ed., Thames & Hudson, 2010, ISBN: 9780500203022
- 7. McKelvey, Kathryn, and Janine Munslow, "Fashion Design: Process, Innovation and Practice", 3rd ed., Wiley-Blackwell, 2011, ISBN: 9780470658373
- 8. Miller, Lesley Ellis, and Janine Munslow, "Fashion Portfolio: Design and Presentation", Wiley-Blackwell, 2011, ISBN: 9781405157854
- 9. Quinn, Bradley, "Textile Futures: Fashion, Design and Technology", Berg Publishers, 2010, ISBN: 9781845208087
- 10. Stecker, Pamela, "Illustrating Fashion: Concept to Creation", 2nd ed., Fairchild Books, 2006, ISBN: 9781563673738
- 11. Tate, Sharon Lee, "Inside Fashion Design", 5th ed., Pearson, 2007, ISBN: 9780131971349

- 12. Ulasewicz, Connie, and Janet Hethorn, editors, "Sustainable Fashion: Why Now? A Conversation Exploring Issues, Practices, and Possibilities", Fairchild Books, 2008, ISBN: 9781563677590
- 13. WGSN Trend Forecasting Reports, "Fashion Trend Forecasting Reports". WGSN, www.wgsn.com.
- 14. Yee, Leong Kwan, "Fashion Design Essentials: 100 Principles of Fashion Design", Rockport Publishers, 2012, ISBN: 9781592538276

III Semester B.Sc. FAD 3.2 P - Fashion Art and Design (Practical)

| FAD 3.2 P | Exam Hours: 03 Hrs. |
|--------------------------------|-------------------------|
| Total Hrs.: 42 | Exam Marks: 40 |
| Number of Practical Credits: 2 | Internal Assessment: 10 |

| Unit – 1 | |
|---|----|
| Research design- Preparation of boards based on inspiration, mood, color, client, texture and fabric swatch boards based on current trend. | 10 |
| Unit – 2 | |
| Elements and Principles of design in creating illusion in garment designing for following categories - children wear, women's wear, men's wear - evening wear, nightwear, summer wear, winter wear and party wear. Fashion illustration techniques and 3D views. | 10 |
| Unit – 3 | |
| Foreshortening of figures, grouping of figures - thematic figure composition (Any 3). Flat sketch - sketching flats for women, men and children wear, croquis mixed with flats, portfolio flats, technical drawing. | 10 |
| Unit – 4 | |
| High end rendering techniques- sketching ruffles, cascades, cowls, smocking, shirring, gathers, gores, pin tucks, dress and gown, bridal Wear. Rendering of luxe fabric – embroidered, lace, sequined tulle, fringed chiffon, appliqued Wool. | 12 |

III Semester B.Sc. Fashion and Apparel Design FAD 3.3 T – Pattern Making and Garment Construction - II (Theory)

| FAD 3.3 T | Exam Hours: 03 Hrs. |
|-----------------------------|-------------------------|
| Total Hrs.: 56 | Exam Marks: 80 |
| Number of Theory Credits: 3 | Internal Assessment: 20 |

| Object | tives |
|--------|---|
| Cou | rse outcomes: On successful completion of the course, the students will be able to |
| 1. | Understand the application of flat pattern techniques in garment making |
| 2. | Acquire proficiency in fabric estimation and pattern layout |
| 3. | Develop the ability to assess and correct common fit issues in garments using appropriate |
| | fitting techniques. |
| 4. | Execute the knowledge of grading patterns. |
| 5. | Exhibit foundational knowledge in identifying specialized garments. |

| Unit-1 | Hrs. |
|---|------|
| Introduction to flat pattern techniques, - dart manipulation techniques- single dart and | 14 |
| double dart series - radiating, graduating and dart clusters and dart equivalents | |
| Pattern Layout - definitions, principles, types of layouts, importance of pattern layout. | |
| Fabric Estimation - definition, types of estimation, and its importance. | |
| | |
| Unit-2 | |
| Fitting - Introduction, principles of fitting, types of garments fit, standards for a good fit, | 14 |
| E-fit, common fit issues and remedies. | |
| Fit considerations for various garments-dresses, pants, jackets, adapting fitting techniques | |
| for specific garment types. Fitting defects in garment – causes and remedies. | |
| | |
| Unit-3 | |
| Pattern alteration techniques - Introduction, principles, importance, methods of alteration | 14 |
| techniques. Pivot, Slash and Spread method (length, width, front and back), modifying | |
| necklines and shoulders, sleeve, shirt, skirt, trousers- (alteration of crotch, waist, inseam | |
| and side seams). | |
| Grading - Introduction, definition, grading terminologies, principles, types, sizes, grade | |
| rules and points, manual and computerized grading, importance, advantages and | |
| disadvantages. | |
| | |
| Unit-4 | |
| Foundation garments- Introduction, design, fabric, trims and accessories. Types of fitting | 14 |
| for men's innerwear briefs & trunk, swimwear, women's innerwear brassier, panties and | |
| swim wear. | |
| Sports wear and active wear- Introduction, design, fabric, garment fitting, materials used | |
| and types of sport wear for men and women. | |
| | |

| | References |
|----|--|
| 1. | Elizabeth Liechty, Judith Rasband, "Fitting and Pattern Alteration", Bloomsbury Academic USA, 2016. |
| 2. | Harper& Row "Vogue Sewing Book" Publishers New York 1982 |
| 3. | Nora M. MacDonald, "Principles of Flat Pattern Design" – 4 th Edition, 2016 |
| 4. | Gina Renee, "The Fitting Book", 2020 |
| 5. | Julie Cole "Patternmaking with Stretch Knit Fabrics" –2016 |
| 6. | Professional Pattern Grading for Women's, Men's and Children's Apparel – Jack Handford 2003 |
| 7. | Jennifer Lynne Matt "Underwear Construction and Pattern Drafting for Lingerie Design"- Bare Essentials:2018 |
| 8. | Ruth E. Glock, Grace I. Kunz, "Apparel Manufacturing, sewn product analysis", Pearson, 2018 |
| 9. | Steven George Hayes, Praburaj Venkatraman, "Materials and Technology for Sportswear and Performance Apparel", CRC Press Taylor and Francis Group, 2017 |
| 10 | . Helen J Armstrong, "Pattern Making for Fashion Design", Pearson, 5th edition, 2009. |
| 11 | . Martin M Shoben, Patrick J Taylor, "Grading for the Fashion Industry", LCFS Fashion Media, 2004. |
| 12 | . Natalie Bray, "Dress Fitting - Basic Principles and Practice", BSP Professional Book Publishers, 2nd edition, 1991. |
| 13 | . Patric Taylor, "Grading for the Fashion Industry", Stanley Thomas Ltd., 1990. |
| 14 | . Winfred Aldrich, "Metric Pattern Cutting", Blackwell Science, UK, 1988 |
| 15 | . Natalie Bray, "Dress Pattern Designing", Blackwell Publishers 5 th Edition 2003 |

III Semester B.Sc.

FAD 3.3 P – Pattern Making and Garment Construction - II (Practical)

| FAD 3.3 P | Exam Hours: 03 Hrs. |
|--------------------------------|-------------------------|
| Total Hrs.: 42 | Exam Marks: 40 |
| Number of Practical Credits: 2 | Internal Assessment: 10 |

| Unit – 1 | |
|---|----|
| Dart manipulation techniques- development of samples using pivotal and slash and spread method - single dart and double dart series - radiating, graduating and dart clusters and dart equivalent. Development of manual grading of patterns —children's and women's basic pattern set. (front, back, basic bodice, and sleeve pattern and skirt (front & back). | 6 |
| Unit – 2 | |
| Designing and development of children's wear with style features – design development, fabric estimation, pattern development, fabric layout construction details and costing. • Waistline frock • Bifurcated garment. | 12 |
| Unit – 3 | |
| Designing and development of women casual wear with style features – design, fabric estimation, fabric layout and consumption, construction details and costing. • Designer Choli • Salwar Kameez | 12 |
| Unit – 4 | |
| Designing and development of men's casual wear with style features – design, fabric estimation, fabric layout and consumption, construction details and costing. • Waist coat • Kurta and Pyjama | 12 |

III Semester B.Sc. Fashion and Apparel Design FAD 3.4 T E-1A – Fashion Forecasting & Trend Analysis (Theory)

| FAD 3.4 T E-1A | Exam Hours: 1.5 Hrs. |
|-----------------------------|-------------------------|
| Total Hrs.: 28 | Exam Marks: 40 |
| Number of Theory Credits: 2 | Internal Assessment: 10 |

| Objecti | ves | |
|---------|---|--|
| Cour | Course outcomes: On successful completion of the course, the students will be able to | |
| | | |
| 1. J | Understand the role of color forecasting, fabric selection, and textile innovation in trend | |
| Fore | ecasting. | |
| 2. U | Jse different techniques and tools in forecasting trend analysis. | |
| 3. P | Predict future fashion trend and consumer behavior. | |
| 4. C | Create trend presentations to communicate insights effectively. | |
| 5. Iı | mplement forecasting insights into product development and collection planning. | |

| Unit-1 | Hrs. |
|--|------|
| Fashion forecasting – introduction, types- long- term and short- term forecasting, role of | 14 |
| fashion forecaster, direction of fashion change, forecasting with trend, seasonality and | |
| cycles, time series and trends, constant and linear pattern. role of internet in fashion | |
| forecasting. | |
| Trend forecasting - introduction, objectives, importance, theories, elements and principles | |
| of forecasting, steps in forecasting, major areas of forecasting, advantages, and limitations | |
| in forecasting. | |
| Fashion forecasting process – activities- market research- consumer research, shopping, sales records, evaluating the collections- fashion trends, trends for target markets, colour | |
| forecasting, textile development and sales forecasting, fashion services and resources- | |
| collection reports, trend reports, consulting services, fashion editing, trade publications. | |
| Forecasting methods- subjective approach- qualitative methods, objective approach- | |
| quantitative methods. Fashion forecasting techniques- Delphi technique, scenario writing, | |
| subjective approach, time-series forecasting. forecast accuracy, forecast error measures. | |
| | |
| Unit-2 | |
| Colour forecasting- steps in colour forecasting - colour forecast reports. dimensions of | 14 |
| colour, colours in marketing, consumers and the psychology of colours. forecasting with | |
| colour cycles, colour research - colour ideas and palettes. | |
| Cultural and societal influences on fashion trends: cultural, social and economic factors | |
| influencing fashion, the impact of art, music, film, and subcultures on trends. case studies | |
| on global fashion trends and their origins. | |
| | |
| Innovation and trend: basic needs, drivers of change invention, design and innovation- | |
| Innovation and trend: basic needs, drivers of change invention, design and innovation- | |
| product design. innovation spectrum-the four lenses of innovation- automaticity, | |
| product design. innovation spectrum-the four lenses of innovation- automaticity, innovation-incremental, radical and disruptive innovation and trends. | |
| product design. innovation spectrum-the four lenses of innovation- automaticity, | |

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- 2. Fernand Gobet, "Understanding Trends: Prediction, Forecasting, and Explanation," 2021, Oxford University Press.
- 3. Gilbson R, "The 4 lenses of Innovation: A power tool for Creative thinking, Wile publications, 2015, ISBN: 9781118740248.
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- 5. Lorynn Divita "Fashion Forecasting", Fairchild Books, 5th Edition, ISBN:978-1-5013-3898-4
- 6. Lorynn Divita, "Fashion Forecasting: Research, Analysis, and Presentation," 2022, Bloomsbury Publishing.
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- 13. Venkatesan, Raj, and Jim Lecinski. Artificial Intelligence in Marketing. Wiley, 2021. ISBN: 9781119701233.

III Semester B.Sc. Fashion and Apparel Design FAD 3.4 T E-1B – Home Textiles (Theory)

| FAD 3.4 T E-1B | Exam Hours: 1.5 Hrs. |
|-----------------------------|-------------------------|
| Total Hrs.: 28 | Exam Marks: 40 |
| Number of Theory Credits: 2 | Internal Assessment: 10 |

| Objectives | | |
|---|--|--|
| Course outcomes: On successful completion of the course, the students will be able to | | |
| 1. Identify emerging trends in home textiles and their influence on interior décor. | | |
| 2. Perceive the role and importance of home textiles. | | |
| 3. Design home textile products to meet consumer demands. | | |
| 4. Select appropriate fabrics for home textile products. | | |
| 5. Develop creative home textiles for interiors. | | |

| Unit-1 | Hrs. |
|--|------|
| Introduction to home textiles - types, factors influencing selection of home textiles, and | 14 |
| recent trends in home textiles. | |
| Floor and wall coverings – types of floors covering –hard, soft, and resilient floor | |
| coverings- carpets and rugs - importance, uses, factors affecting selection of floor | |
| coverings, advantages and disadvantages, care and maintenance of floor coverings. wall | |
| Covering- definition, importance, uses, care and maintenance of wall coverings. | |
| Doors and window: parts of the door and window, curtains and draperies- definitions, | |
| materials used for curtains and draperies, importance, advantages and disadvantages, | |
| factors affecting selection of curtains and draperies. | |
| Window treatments: types of curtains – draw, tailored, pleated, cafe, three tier curtains. types of draperies- swag and valances. accessories- rods hook, rails, racks, curtain tape | |
| pins. Care and maintenance of curtains, draperies and its accessories. | |
| pins. Care and maintenance of curtains, draperies and its accessories. | |
| Unit-2 | |
| Soft furnishings for living room - introduction, types of soft furnishing, upholstery-sofa, | 14 |
| sofa covers, cushion, cushion covers, floor cushion, upholsteries, bolster and bolster | |
| covers, uses, care and maintenance. | |
| Soft furnishings for bed linen - bed sheets, blankets, blanket covers, comfort, and comfort | |
| covers, bedspreads, mattress and mattress cover, pillow and pillow cover, pads, uses, care | |
| and maintenance. | |
| Soft furnishings for kitchen and dining - types of kitchen linens – kitchen towel, aprons, | |
| dish cloth, fridge, grinder and mixer cover, fridge holders -their uses, care and | |
| maintenance. Dining - types of dining table mat, runners, dish/pot holders, cutlery holder, | |
| fruit baskets, hand towels- uses, care and maintenance. | |
| Bathroom linens - types of fabric used- face towel, turkey towel, bath robe, floor mat, | |
| Shower curtains, uses, care and maintenance. | |
| Smart home textiles - introduction, recent developments in smart home textiles, | |
| applications, scope and future of smart textiles in global scenario. | |
| | i |

- 1. Charlotte M Gibbs, "Household Textiles", Forgotten Book, ISBN: 978-0-365-52154-9.
- 2. Dorothy Wood., "Practical Encyclopedia of Soft Furnishing", South water Publishing, 2019
- 3. Durga Deulkar, "Household Textiles and laundry Work", Athmram Publication, 2011, ISBN: 978-8170437864.
- 4. Frank Theodore K, "Fabric for the Designed Interior" 2nd edition, Bloomsbury Publishing Plc, 2017
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B.Sc. Fashion and Apparel Design

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

FAD 4.1 T – History of Costumes and Traditional Textiles (Theory)

Objectives

| FAD 4.1 T | Exam Hours: 03 Hrs. |
|-----------------------------|-------------------------|
| Total Hrs.: 56 | Exam Marks: 80 |
| Number of Theory Credits: 3 | Internal Assessment: 20 |

Understand the History of traditional costumes and textiles and its influence on fashion.
 Analyze and create textile patterns based on traditional designs and cultural symbolism

| 3. Understand the importance of Indian textiles and costumes. | |
|--|------|
| 4. Explore the influence of traditional textiles on modern clothing. | |
| 5. Appreciate the historical and contemporary relevance of textiles in global and Indian | |
| contexts. | 1 |
| contexts. | |
| Unit-1 | Hrs. |
| History of costumes - Introduction, beginning of costume - body decorations, body | 14 |
| staining, tattooing, cutting and scarification, adoption of fibrous apparel, initial | |
| manufacturing of clothes. | |
| World textiles and costumes - Egyptian, Greek, Roman, Japanese - history, types, motifs | |
| and symbols, pre-historic textiles and costumes - social evidence, costume components | |
| for men, women and children, hair and headdress. | |
| French Revolution, French costumes, motif and symbols from Renaissance to 20th | |
| century. Textiles and costumes of Colonial, Victorian, Edwardian Era, WW I and WW II, | |
| factors influencing costume change - style, religion, location, climatic period and world | |
| affairs, youth in fashion, ted, mod, punk, hippie. | |
| Unit-2 | |
| Textiles and costumes of India- Introduction, history, types, motifs and symbols, | 14 |
| prehistoric textiles, and costumes - costume components for men, women and children, | 1. |
| hair, and hair dresses. | |
| Origin of clothing (dress) - Stone age, Neolithic age, Bronze age, Indus Valley | |
| Civilization, Vedic age, Middle Ages - Introduction, history, types, motifs and symbols, | |
| prehistoric textiles, and costumes. Costume components for men, women and children- | |
| hair, and hairdressers - Mauryan, Guptas, Satavahanas, Kushans & Mughals. | |
| TV 1: 0 | |
| Unit-3 | |
| Hand woven textiles - sarees - Banaras Brocades, Baluchari, Jamdani, Dhaka Muslin, Himru, | 14 |
| Amru, Tanchoi, Patola, Pochampalli, Paithani, Kanjeevaram, Chanderi, Maheshwari, Ilkal, | |
| Molakalmuru, Mysore silks, Kasuvu, Narayanpet, Gadwall, Mangalagiri, Uppada and | |
| Venkatagiri. | |
| Embroidered textiles- Kashmiri, Chikankari, Phulkari, Kantha, Parsi Gara, Zardozi and Ari. | |
| Shawls - Kashmir Shawls, Kullu & Kinnaur Shawls. Wraps of north-east. Floor coverings - | |
| carpets, durries & rugs. | |
| | |
| | |

Unit-4

Printed and painted textiles of India- Introduction, history, types of printed, dyed, and painted textiles of India. Colours, motifs, and techniques used in printed, dyed and painted. Indian traditional textiles. Printed textiles: Block prints - Bagru, Sanganer, Ajrakh. Painted textiles – Kalamkari, Warli, Madhubani, Pattachitra. Resist dyed textiles - Introduction, types, design used in Tie and Dye, Bandhej & Lehariya of Rajasthan. Ikat - Patola of Gujarat, Bandha of Odisha, Pochampalli of Andhra Pradesh.

14

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FAD 4.1 P - History of Costumes and Traditional Textiles (Practical)

| FAD 4.1 P | Exam Hours: 03 Hrs. |
|--------------------------------|-------------------------|
| Total Hrs.: 42 | Exam Marks: 40 |
| Number of Practical Credits: 2 | Internal Assessment: 10 |

| Unit – 1 | |
|--|----|
| Sketching of costumes (Men and Women) of Indus valley, Vedic, Mauryan, Kushans, Gupta | 0 |
| and Mughal period. Egyptian, Greek, Roman, French and Japanese (2 Each). | 8 |
| | |
| Unit – 2 | |
| Development of design - motif, design, pattern - combination of different motifs in a pattern, | ı |
| pattern arrangements. Base - ogee, diagonal, square, diamond, counter change and borders, | İ |
| concentric, corner, circular, and cylindrical. Repeats - drop repeat (full, 1/4, 1/2, 3/4 drop), | 10 |
| brick repeat, mirror repeat (vertical and horizontal). | ĺ |
| | ı |
| Unit – 3 | |
| Sketching of traditional costumes and accessories for men and women— | 1 |
| North India - Jammu & Kashmir, Punjab, Himachal Pradesh, Haryana, Madhya Pradesh, | 10 |
| Uttarakhand, and Uttar Pradesh. | 12 |
| South India – Tamil Nadu, Kerala, Karnataka, and Andhra Pradesh. | l |
| | |
| Unit – 4 | |
| Sketching of traditional costumes and accessories for men and women— | ı |
| East India – West Bengal, Bihar, Jharkhand, Arunachal Pradesh, Assam, Sikkim, Nagaland, | 12 |
| and Manipur. | 14 |
| West India – Rajasthan, Gujarat, Maharashtra, and Goa. | l |

IV Semester B.Sc. Fashion and Apparel Design FAD 4.2 T – Textile and Apparel Testing (Theory)

| FAD 4.2 T | Exam Hours: 03 Hrs. |
|-----------------------------|-------------------------|
| Total Hrs.: 56 | Exam Marks: 80 |
| Number of Theory Credits: 3 | Internal Assessment: 20 |

| Obje | ectives | |
|------|--|--|
| Co | Course outcomes: On successful completion of the course, the students will be able to | |
| 1. | Demonstrate a comprehensive understanding of standard procedures and protocols involved in textile testing. | |
| 2. | Analyze testing methods for fiber, yarn, fabric, and garments to evaluate quality parameters. | |
| 3. | Apply the working principles of textile testing equipment in various testing scenarios. | |
| 4. | Execute correct procedures to test fabrics, trims, and garment accessories as per industry norms. | |
| 5. | Evaluate global standards and certifications related to textile and apparel testing for industry compliance. | |

| Unit-1 | Hrs. |
|--|------|
| Introduction to textile testing, objectives. Sampling - types and its importance, Fiber - | 14 |
| moisture and moisture relationship, moisture content and regain. | |
| Fiber maturity, fiber length, fiber fineness - objectives and determination. | |
| Yarn count- direct system and indirect system, its importance in fabric manufacturing. | |
| Yarn twist- determination of twist direction, and effects of twist on fabric properties. | |
| Yarn strength – single yarn strength, lea strength its objectives and determination. | |
| Unit-2 | |
| Fabric testing- fabric dimensions- length, width, thickness. determination of fabric weight | 14 |
| - GSM measurement and its applications. cover factor. fabric shrinkage, testing fabric | |
| strength - terminology and definition - tensile strength, bursting strength, tear strength its | |
| objectives and determination. Terms related to textile testing – load, elongation, stress - | |
| strain curve, work of rupture, initial young's modulus, yield point. | |
| | |
| Unit-3 | |
| Fabric air permeability, fabric stiffness, drape co-efficient, crease resistance, abrasion | 14 |
| resistance, pilling - objectives & determination | |
| Colour fastness to laundering, rubbing, light, ironing and perspiration. | |
| | |
| Unit-4 | |
| Tensile properties of seams and stitches, zipper test. | 14 |
| Garment and garment accessories testing – testing of fusible interlinings, zippers, elastic | |
| waistband, sewing threads, buttons, snap fasteners and wear testing. | |
| | |

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FAD 4.2 P – Textile and Apparel Testing (Practical)

| FAD 4.2 P | Exam Hours: 03 Hrs. |
|--------------------------------|-------------------------|
| Total Hrs.: 42 | Exam Marks: 40 |
| Number of Practical Credits: 2 | Internal Assessment: 10 |

| Unit – 1 | Hrs. |
|--|------|
| termination of geometrical properties of fabrics: thread count (EPI and PPI), yarn count, | |
| GSM, thickness, fabric cover factor, fabric crimp percentage. | 12 |
| | |
| Unit – 2 | |
| Determination of fabric bending length and drape co-efficient. | |
| Determination of fabric tensile strength, tearing strength, abrasion resistance, and pilling | 12 |
| resistance. | |
| | |
| Unit – 3 | |
| Determination of fabric crease recovery. | |
| Determination of fabric shrinkage, colour fastness to washing, rubbing test (crock meter), | 12 |
| ironing and sunlight. | |
| | |
| Unit – 4 | |
| Visit to a commercial textile and apparel testing centre. | |
| | 6 |

B.Sc. Fashion and Apparel Design FAD 4.3T –Apparel Production (Theory)

| FAD 4.3 T | Exam Hours: 03 Hrs. |
|-----------------------------|-------------------------|
| Total Hrs.: 56 | Exam Marks: 80 |
| Number of Theory Credits: 3 | Internal Assessment: 20 |

| Objectives | |
|--|--|
| Course outcomes: On successful completion of the course, the students will be able to | |
| 1. Understand various stages of garment production and their interdependency. | |
| 2. Understand workflow, production planning, and process control in the apparel industry. | |
| 3. Differentiate types of apparel manufacturing units and their operational structures. | |
| 4. Gain knowledge of apparel machinery used in garment manufacturing units. | |
| 5. Apply industrial engineering techniques to improve productivity in apparel manufacturing. | |

| Unit-1 | Hrs. |
|---|------|
| Introduction to apparel industry – domestic and international market, apparel production | 14 |
| process flow, sustainability and ethical practices in apparel manufacturing, fabric | |
| sourcing, testing and quality standards. | |
| Apparel pre-production process- sourcing- fabric and accessories, lead time in sourcing, | |
| sampling- types and its importance, pattern making: manual and CAD based, marker | |
| planning and marker efficiency, fabric spreading, fabric cutting techniques - manual and | |
| automated cutting, fusing and its importance in apparel manufacturing, types of fusible | |
| interlinings and their properties. Fusing methods, fusing machineries - flatbed and | |
| continuous fusing. Quality control in fusing. | |
| Apparel production planning & management - production scheduling and workflow | |
| optimization, line balancing in apparel manufacturing, material requirement planning | |
| (MRP), supply chain management in apparel production. | |
| Unit-2 | |
| | 16 |
| Industrial engineering in apparel manufacturing - Introduction and its importance. Work | 10 |
| measurement techniques – time study, motion study, and method analysis. Introduction to | |
| lean manufacturing in apparel production. Productivity measurement, Standard Allowed Minute (SAM), Standard Minute Value (SMV). | |
| Apparel production machinery & equipment- overview of machines used in apparel | |
| production, Industrial sewing machines: lockstitch, overlock, flatlock, button stitch, button | |
| hole, button fixing and bar tacking etc., sewing machine attachments- hemming, binding, | |
| elastic and gathering, zipper, piping and cording, quilting and decorative. maintenance and | |
| troubleshooting of apparel production machinery. | |
| Apparel production systems- types, Unit production system (UPS), Progressive bundle | |
| system (PBS), Modular production system (Team-Based), Lean production system. | |
| system (1 bb), Modulai production system (1 cam-based), Lean production system. | |
| Unit-3 | |
| Apparel quality control & assurance- quality standards and specifications, common | 12 |
| defects in apparel manufacturing, inspection techniques: inline, end-line, and final | |
| inspections, Statistical Quality Control (SQC) in apparel production, compliance | |
| standards: ISO, AQL, and other industry standards. | |

Apparel accessories and components- importance of accessories and components in apparel, types-functional and decorative components- support materials, fasteners, and closures, decorative accessories, functional accessories, labels - brand, size, care and hand tags, packing materials. Finishing and packing department – functions and activities of finishing and packing department in garment industry.

Unit-4

Apparel export procedures and documentation - definition of export and import. Export procedure, export documentation – documents related to goods, shipment, customs and clearance, payment methods in international trade- payment in advance, open account, letter of credit, documentary collections, aligned documentation system. incoterms in international trade, export promotion councils and their role (AEPC, TEXPROCIL, CEPC, HEPC, etc.). Export incentive schemes. ECGC, exim bank - its role in export promotion. Export- import policy - objectives, functions and features.

14

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FAD 4.3 P – Apparel Production (Practical)

| FAD 4.3 P | Exam Hours: 03 Hrs. |
|--------------------------------|-------------------------|
| Total Hrs.: 42 | Exam Marks: 40 |
| Number of Practical Credits: 2 | Internal Assessment: 10 |

| Unit-1 | |
|--|----|
| Tech pack development & analysis - introduction to tech pack and its importance, components of a tech pack: technical sketches, spec sheet, measurement charts, seam details, construction details, BOM (Bill of Materials), stitching and finishing instructions. Analysis of tech pack: understanding specifications and requirements. development of tech pack for men's wear – (formal shirt & trouser), women's wear – (formal shirt & skirt) and children's – (shorts for boys and pinafore for girls) | 10 |
| Unit 2 | |
| Stitches and seams as per ASTM Standards - classification of stitches as per ASTM D6193. Seams and seam finish according to ASTM standards. Practical exercises on different stitches and seam applications. | 10 |
| Unit 3 | |
| Development of men's shirt & trouser. Pattern development and cutting techniques for men's shirts and trousers, sewing sequence and assembly techniques, fit analysis and finishing methods. | 12 |
| Unit 4 | |
| Development of women's skirt & jacket. Understanding the structure and pattern of a women's jacket, sewing techniques for tailored garments, quality control and final evaluation. | 10 |

B.Sc. Fashion and Apparel Design

FAD 4.4 T E-2A – Boutique Management (Theory)

| FAD 4.4 T E-2A | Exam Hours: 1.5 Hrs. |
|-----------------------------|-------------------------|
| Total Hrs.: 28 | Exam Marks: 40 |
| Number of Theory Credits: 2 | Internal Assessment: 10 |

| Objectives |
|---|
| Course outcomes: On successful completion of the course, the students will be able to |
| 1. Identify different types of boutiques and their business models. |
| 2. Formulate business plans, including budgeting, financing, and investment strategies. |
| 3. Analyze market trends, consumer behavior, and target audience. |
| 4. Demonstrate effective resource and material management techniques. |
| 5. Establish and manage a boutique. |

| Unit-1 | |
|--|----|
| Introduction to Boutique management – definition, terminologies, management skills required to set up a boutique. Identifying the target market, customer, planning organizational structure of a boutique. Types of boutiques - based on market segment - low-end and high-end, based on ownership & brand structure - standalone and chain, based on product specialization – designer, ethnic wear, indo-western, bridal, and niche/sustainable boutiques. Boutique essentials - choice of location, infrastructure requirement, design elements of the boutique, boutique interior, store layout, types of display - exterior display, interior display, tools for visual merchandising, signage props, mannequin fixtures, and lighting. | 14 |
| Unit-2 | |
| Resource management and staffing in boutique: selection of generalists and specialists; Customer relationship management; manpower planning; performance management; employee relations. Materials management in boutique - marketing tools and promotional kit, material sourcing, book keeping for boutique, and maintaining stock. Financial Management- project finance – cash control and cash flow analysis - managing and starting up the boutique business, boutique visit, and boutique project report. Case study on any four successful Indian boutiques. | 14 |

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B.Sc. Fashion and Apparel Design

FAD 4.4 T E-2B – Fashion Retail, Marketing & Merchandising (Theory)

| FAD 4.4 T E-2B | Exam Hours: 1.5 Hrs. |
|-----------------------------|-------------------------|
| Total Hrs.: 28 | Exam Marks: 40 |
| Number of Theory Credits: 2 | Internal Assessment: 10 |

Course outcomes: On successful completion of the course, the students will be able to 1. Understand the structure and evolution of the global and Indian fashion retail industry. 2. Apply marketing principles and consumer behavior theories to fashion retail scenarios. 3. Analyze merchandise planning, pricing strategies, and retail operations. 4. Develop an integrated retail strategy incorporating fashion marketing, merchandising, and store management principles.

| 5. | Evaluate the role of branding, promotion, and visual merchandising in enhancing retail |
|----|--|
| | experience. |

| Unit-1 | Hrs. |
|---|------|
| Fashion retail - introduction, evolution and types of fashion retail formats, fashion retail channels - offline, online, omnichannel. Retail business models: franchise, licensee, own brand, multi-brand. role of technology in retail transformation. Consumer behavior in fashion: understanding fashion consumers and buying motives, Fashion cycle and diffusion of innovation, market segmentation, targeting and positioning, consumer decision-making process. Fashion marketing fundamentals - marketing mix (7Ps) in fashion, product lifecycle and positioning, brand management and image building, retail brand vs. product brand. | 14 |
| TI:4 0 | |
| Unit-2 | 14 |
| Merchandise planning and buying - merchandise hierarchy: categories, assortments, seasonal buying, trend forecasting, and vendor management, pricing strategies in fashion - cost-based, value-based, competition-based, retail math basics - markup, markdown, inventory turnover. Visual merchandising and retail promotion - Store layout, signage, and window displays, fixtures and planograms, in-store experience and ambience. Advertising, PR, influencer marketing, and social media in fashion. Retail operations and strategy - store operations: staffing, inventory control, loss prevention, customer service and loyalty programs, omni-channel retailing and e-commerce logistics, Digital marketing. Case study on retail business plan and strategy. | 14 |

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B.Sc. Fashion and Apparel Design FAD 4.5 P – Computer Aided Design (Practical)

| FAD 4.5 P | Exam Hours: 3 Hrs. |
|--------------------------------|-------------------------|
| Total Hrs.: 42 | Exam Marks: 40 |
| Number of Practical Credits: 2 | Internal Assessment: 10 |

| Objectives | | |
|--|--|--|
| Course outcomes: On successful completion of the course, the students will be able to | | |
| 1. Understand the general process of design and the role of CAD in the fashion industry. | | |
| 2. Identify and utilize essential tools in fashion design software | | |
| 3. Utilize pattern drafting software (PDS) for layouts, grading and marking | | |
| 4. Develop various fashion boards to enhance design visualization. | | |
| 5. Develop textile and garment designs with digital techniques | | |

| Unit-1 | Hrs. |
|---|------|
| Fashion design software – tools, enhancing images, masking, transform, working with layers, merging & blending layers, text effects. | 12 |
| Creating advertising brochures, brand labels, care labels, logo designing, development of | |
| visiting cards, letterheads. Designing fashion accessories –necklaces, bracelets, anklets, earrings, and headgear. | |
| Unit-2 | |
| Motif development — symmetrical/asymmetrical, balanced/unbalanced, repeat patterns (Full drop, ½ drop, ¼ drop, ¾ drop, mirror H/V, drop reverse). Textile & garment design — design development for sarees with borders, pallu, all-over patterns, and men's kurta with neckline, cuffs, and sleeves. (Any one sample to be printed on textiles). | 12 |
| Unit-3 | |
| Flat Sketch development – design development of flat sketches with stitch specifications for children (A-line & yoke frock, shirts & shorts), adults (women's tops, skirts, gowns, men's shirts, kurta, trousers) | 9 |
| Unit-4 | |
| Pattern drafting software (PDS) – tools, file management, measure, edit, view functions, point & notch functions, line functions, piece functions. Create garments for A-line frock, women's shirt and men's trouser. Grade the above patterns. | 9 |

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QUESTION PAPER PATTERN (Theory)

III/IV Sem. B.Sc. Examination (2024-25 Onwards)

FASHION & APPAREL DESIGN Paper code and Title of the paper

MAX MARKS-80 TIME: 3Hrs

| | Instructions to the Candidates: | |
|---------------------------------|--|---------|
| | 1. All sections are compulsory | |
| | 2. Illustrate wherever necessary Section –A | |
| I Answer any Ten of the follow | ving: | 10X2=20 |
| 1. | | |
| 2 | | |
| 3. | | |
| 4 | | |
| 5 | | |
| 6 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| | Section –B | |
| II Answer any Five of the follo | owing: | 5X4=20 |
| 13 | 8 | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| | Section –C | |
| III Answer any Five of the foll | owing: | 5X8=40 |
| 20 | - W | 0120 10 |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |

26

QUESTION PAPER PATTERN (Practical)

III/IV Sem. B.Sc. Examination (2024-25 Onwards) FASHION & APPAREL DESIGN Paper code and Title of the paper

MAX MARKS-40 TIME: 3 Hrs

Instructions to the Candidates:

1. All the questions are compulsory

| 1. | 10 Marks |
|--------------|----------|
| 2. | 10 Marks |
| 3. | 05 Marks |
| 4. Record | 10 Marks |
| 5. Viva Voce | 05 Marks |

QUESTION PAPER PATTERN (Theory -Elective)

III/IV Sem. B. Sc. Examination (2024-25 Onwards)

FASHION & APPAREL DESIGN

Paper Code and Title of the Paper

| MAX MARKS-40 | Duration: 1.5 HRS |
|---------------------------------------|--------------------------|
| Instructions to the Candidates: | |
| 1. All sections are compulsory | |
| 2. Illustrate wherever necessary | |
| SECTION-A | |
| I. Answer all the questions: | 2X5=10 |
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. SECTION-B | |
| | |
| II. Answer any Four of the following: | 4x5=20 |
| 6. | |
| 7. | |
| 8. | |
| 9. 10. | |
| 10. 11. | |
| SECTION-C | |
| III. Answer any One of the following: | 1x10=10 |
| 12. | 1410-10 |
| | |

13.