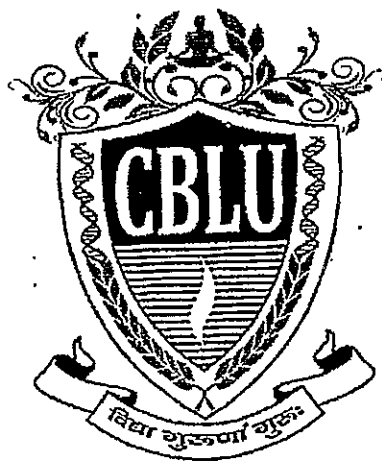


Chaudhary Bansi Lal University, Bhiwani
(A State University established under Haryana Act No. 25 of 2014)



Scheme of Examinations and Syllabus
For
M.A. Programme
In
Fashion Designing

As per NEP 2020

With effect from the session 2024-25 (in phased manner)

Chaudhary Bansi Lal University, Bhiwani
Haryana (India)

Curriculum and Credit Framework for Post-Graduate Programme in Fashion Designing

First year of 2 Year PG program

Course Category	Course Code	Course Title	Total Credits	Marks		
				Internal	External	Total
SEMESTER-I						
DSC-I	24PN-FD-101	Design Thinking Skills	4	30	70	100
DSC-II	24PN-FD-102	Advanced Textile Science	4	30	70	100
DSC-III	24PN-FD-103	Fashion Design Presentation Techniques-1	4	30	70	100
DSC-IV	24PN-FD-104	Textile and Garment Design by surface ornamentation techniques	4	30	70	100
DSC-V	24PN-FD-105	Advanced Fashion Illustration	4	30	70	100
SEC-I	24PN-FD-SEC101	Advanced Garment Design and Construction (Pr)	4	30	70	100
TOTAL			24	180	420	600
SEMESTER-II						
DSC-VI	24PN-FD-201	Advanced Chemical Processing of Textiles	4	30	70	100
DSC-VII	24PN-FD-202	Apparel Merchandising and Marketing	4	30	70	100
DSC-VIII	24PN-FD-203	Digital Fashion Illustration	4	30	70	100
DSC-IX	24PN-FD-204	Quality Control in Fashion & Apparel Industries	4	30	70	100
DSC-X	24PN-FD-205	Fashion & Lifestyle Accessory designing	4	30	70	100
SEC-II	24PN-FD-SEC201	Garment and Lifestyle Accessory Design (Pr)	4	30	70	100
TOTAL			24	180	420	600
Students exiting the programme after second semester and securing 48 credits shall be awarded PG Diploma in the relevant Discipline						

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Curriculum and Credit Framework for Post-graduate Programme in Fashion Designing

Second year of 2 Year PG program

(STUDENT SHOULD SELECT ANY ONE OPTION FOR THE SECOND YEAR OF 2 YEAR PG PROGRAM)

OPTION I: Only Course Work

Course Category	Course Code	Course Title	Total Credits	Marks		
				Internal	External	Total
SEMESTER-III						
DSC-XI	24PN-FD-301	Advanced Garment Production Technology	4	30	70	100
DSC-XII	24PN-FD-302	Textile and Apparel Costing	4	30	70	100
DSC-XIII	24PN-FD-303	Trend Research and Forecasting	4	30	70	100
DSC-XIV	24PN-FD-304	Fashion Retail Management	4	30	70	100
DSC-XV	24PN-FD-305	Research Methodology	4	30	70	100
Project-I	24PN-FD-SEC301	Design Project-I (Pr)	4	30	70	100
TOTAL			24	180	420	600
SEMESTER-IV						
DSC-XVI	24PN-FD-401	Fashion Communication	4	30	70	100
DSC-XVII	24PN-FD-402	Recent Advances in Fashion Design and Lifestyle Technology	4	30	70	100
DSC-XVIII	24PN-FD-403	Art & Portfolio Development	4	30	70	100
DSC-XIX	24PN-FD-404	Print design and development	4	30	70	100
DSC-XX	24PN-FD-405	Fashion styling & range development	4	30	70	100
Project-II	24PN-FD-SEC401	Design Project-II (Pr)	4	30	70	100
TOTAL			24	180	420	600

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Curriculum and Credit Framework for Post-Graduate Programme in Fashion Designing

Second year of 2 Year PG program

(STUDENT SHOULD SELECT ANY ONE OPTION FOR THE SECOND YEAR OF 2 YEAR PG PROGRAM)

OPTION II: Course Work & Research

Course Category	Course Code	Course Title	Total Credits	Marks		
				Internal	External	Total
SEMESTER-III						
DSC-XI	24PN-FD-301	Advanced Garment Production Technology	4	30	70	100
DSC-XII	24PN-FD-302	Textile and Apparel Costing	4	30	70	100
DSC-XIII	24PN-FD-303	Trend Research and Forecasting	4	30	70	100
DSC-XIV	24PN-FD-304	Fashion Retail Management	4	30	70	100
DSC-XV	24PN-FD-305	Research Methodology	4	30	70	100
Internship -I	24PN-FD-SEC302	Industry Internship-I	4	30	70	100
		TOTAL	24	180	420	600
SEMESTER-IV						
Internship -II	24PN-FD-SEC401	Industry Internship-II	4	30	70	100
Research Project	24PN-FD-401	Research thesis/project	20	100	400	500
		TOTAL	24	130	470	600

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Curriculum and Credit Framework for Post-Graduate Programme in Fashion Designing

Second year of 2 Year PG program

(STUDENT SHOULD SELECT ANY ONE OPTION FOR THE SECOND YEAR OF 2 YEAR PG PROGRAM)

OPTION III: Only Research (only for the students who have completed 3 years Bachelor's Program)

Course Category	Course Code	Course Title	Total Credits	Marks		
				Internal	External	Total
SEMESTER-III						
Internship -I	24PN-FD-SEC302	Industry Internship-I	4	30	70	100
Research Project	24PN-FD-306	Research thesis/project	20	100	400	500
TOTAL			24	130	470	600
SEMESTER-IV						
Internship -II	24PN-FD-SEC401	Industry Internship-II	4	30	70	100
Research Project	24PN-FD-402	Research thesis/project	20	100	400	500
TOTAL			24	130	470	600

Note: *The students who opted Option III should submit a project report/synopsis of at least 50 pages comprising of Literature survey, identification of Research Problem, Plan of work, methodology as well as practical work (if any) at the end of 3rd semester and the same will be evaluated by internal and external examiners.

****The students should continue the research work in 4th semester based on the project work/synopsis submitted at the end of 3rd semester. The final thesis/project report will be evaluated by the internal and external examiners.**

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Curriculum and Credit Framework for Post-graduate Programme in Fashion Designing

One year PG program
(STUDENT SHOULD SELECT ANY ONE OPTION)

OPTION I: Only Coursework

Course Category	Course Code	Course Title	Total Credits	Marks		
				Internal	External	Total
SEMESTER-III						
DSC-XI	24PN-FD-301	Advanced Garment Production Technology	4	30	70	100
DSC-XII	24PN-FD-302	Textile and Apparel Costing	4	30	70	100
DSC-XIII	24PN-FD-303	Trend Research and Forecasting	4	30	70	100
DSC-XIV	24PN-FD-304	Fashion Retail Management	4	30	70	100
DSC-XV	24PN-FD-305	Research Methodology	4	30	70	100
Project-I	24PN-FD-SEC301	Design Project-I (Pr)	4	30	70	100
TOTAL			24	180	420	600
SEMESTER-IV						
DSC-XVI	24PN-FD-401	Fashion Communication	4	30	70	100
DSC-XVII	24PN-FD-402	Recent Advances in Fashion Design and Lifestyle Technology	4	30	70	100
DSC-XVIII	24PN-FD-403	Art & Portfolio Development	4	30	70	100
DSC-XIX	24PN-FD-404	Print design and development	4	30	70	100
DSC-XX	24PN-FD-405	Fashion styling & range development	4	30	70	100
Project-II	24PN-FD-SEC401	Design Project-II (Pr)	4	30	70	100
TOTAL			24	180	420	600

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Curriculum and Credit Framework for Post-graduate Programme in Fashion Designing

One year PG program
(STUDENT SHOULD SELECT ANY ONE OPTION)

OPTION II: Course Work & Research

Course Category	Course Code	Course Title	Total Credits	Marks		
				Internal	External	Total
SEMESTER-III						
DSC-XI	24PN-FD-301	Advanced Garment Production Technology	4	30	70	100
DSC-XII	24PN-FD-302	Textile and Apparel Costing	4	30	70	100
DSC-XIII	24PN-FD-303	Trend Research and Forecasting	4	30	70	100
DSC-XIV	24PN-FD-304	Fashion Retail Management	4	30	70	100
DSC-XV	24PN-FD-305	Research Methodology	4	30	70	100
Internship -I	24PN-FD-SEC301	Industry Internship-I	4	30	70	100
		TOTAL	24	180	420	600
SEMESTER-IV						
Internship -II	24PN-FD-SEC401	Industry Internship-II	4	30	70	100
Research Project	24PN-FD-402	Research thesis/project	20	100	400	500
		TOTAL	24	130	470	600

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NOTES:

DSC	Discipline Specific Course (DSC)/Major Course: Discipline specific/Major course is the discipline or subject of main focus in which the degree will be awarded. Students should secure the prescribed number of credits (at least 50% of total credits) through Discipline Specific Course/Major Course in the major discipline.
DSEC	Discipline Skill Enhancement Course (DSEC): A discipline skill enhancement course is a course aimed to provide knowledge, skills, training and competencies in a discipline/subject.
SEC	Skill Enhancement Course (SEC): Skill Enhancement Course aims to promote skills pertaining to a particular field of study, impart practical skills, hands-on training, soft skills, etc., in order to enhance the student's employability.
Internship	Internship: Internship is a course to develop a professional ability through an appropriate learning. The duration of Internship is of 120 hours during summer vacation.
Research Thesis/Project	Research thesis/Project: Research thesis/Project is a course involving applications of knowledge in exploring, analyzing and solving real-life situations/problems.

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Semester I
Course Nomenclature: Design Thinking Skills
Course Code: 24PN-FD-101
Course Type: DSC-I

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100

External Assessment Marks: 70

Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the basic elements & tools of design thinking skills for new product development.

Course Outcomes: After completion of the course, learners will be able to:

- CO1: Understand what design thinking is and when to use it
- CO2: Understand how to use design thinking to generate innovative ideas
- CO3: Familiarize with various tools and methods used in Design Thinking
- CO4: Generate and develop design ideas through different techniques
- CO5: Apply the Design Thinking concepts in creation of products.

***Note for the Paper Setter:** The question paper will consist of nine questions in all. The first question will be compulsory and will consist of Seven short questions of 2 marks each covering the whole syllabus. In addition, eight more questions of 14 marks each will be set unit-wise, consisting of two questions from each of the four units. The candidates are required to attempt one compulsory question and four more questions selecting at least one question from each unit.*

UNIT I

Understanding how design thinking evolves, what a different branding and design thinking USP used by companies, Study of the standard design process and other design process as per the scale of company and domain specific, Discussion in different kinds of products in market. Basic learning about different scale of process and business design thinking strategies. Learn on Enterprise design thinking, its elements, principles, and keys. Basic Knowledge about the kind of users- client, stakeholders, sponsor users and users required as per the product design.

Introduction to product life cycle. Learn the standard Design Ethics. Creativity and Limitation in the design process. Innovation in design process, different as per domain specific. Learn about laws on experiential design.

UNIT II

Problem Definition - Empathise, Analysis and Synthesis, Defining the problem statement - space saturate and groups, empathy mapping, point of view, why and how. Other kinds of mapping. Learn and define a problem statement by visualising different ideas to design as a statement given. Learn and brainstorming different ideas to design a product of real-life disability issues. Lateral thinking exercises and learn how to do reverse design thinking.

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UNIT III

Design Thinking Approach - Empathy, ethnography, divergent thinking, convergent thinking, visual thinking, assumption testing, prototyping. Resources - People, place, material, Brainstorming, Mind mapping Technique, Work on Identification and Conceptualization, Working on Brainstorming and mapping.

UNIT IV

Design Thinking Tools and Methods, Creative Thinking, Generating Design Ideas - Lateral Thinking, Analogies, Visualization, Value chain analysis, Synectic, Rapid Prototyping, Customer Co-creation. Examples and Case Studies in Design Thinking from different domains. study of design process of few domains like engineering products and non-engineering products, Group Activities on Design Thinking Skills.

Suggested Readings:

1. John. R. Karsnitz, Stephen O'Brien and John P. Hutchinson, "Engineering Design", Cengage learning (International edition) Second Edition, 2013.
2. Karl Aspelund, The Design Process
3. Bryan Lawson, How Designers Think, Fourth Edition: The Design Process Demystified
4. Michael Lewrick, Patrick Link, Larry Leifer, The design thinking playbook: Mindful digital transformation of teams, products, services, businesses and ecosystems 2018
5. Leo Frishberg and Charles Lambdin, Presumptive design: Design provocations for innovation

Web Resources: <https://www.designcouncil.org.uk/our-work/skills-learning/resources/>

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Semester I
Course Nomenclature: Advanced Textile Science
Course Code: 24PN-FD-102
Course Type: DSC-II

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100

External Assessment Marks: 70

Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the various components of Textiles and recent developments thereof.

Course Outcomes: After completion of the course, learners will be able to:

CO1: Understand various properties of natural and synthetic fibres and comprehend the performance characteristics of various fabrics according to their fibre content.

CO2: Predict and select different types of yarn for fabric development according to various applications.

CO3: Understand the various types of fabric construction methods, their design and performance characteristics, identification techniques and application in various sectors – apparel, home furnishing and industrial.

CO4: Gain understanding of performance and quality parameters for fabrics and acquire skills to inspect fabrics on various quality parameters during purchase.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of Seven short questions of 2 marks each covering the whole syllabus. In addition, eight more questions of 14 marks each will be set unit-wise, consisting of two questions from each of the four units. The candidates are required to attempt one compulsory question and four more questions selecting at least one question from each unit.

UNIT I

FIBRE: STRUCTURE AND PROPERTIES: Relationship of polymer structure of various natural and synthetic fibres to physical, chemical and biological properties of fibres and fibre quality: Morphology, Tensile strength, Moisture, Thermal, Optical and Electrical properties etc. with respect to their applications. Recent advances in fibre technology. Typical Real life case studies with reference to application.

UNIT II

YARN: TYPES, STRUCTURE AND PROPERTIES: Classification of yarns - Spun Yarn Production Process, Carded and Combed Yarns; Woollen and Worsted Yarns; Monofilament and Multifilament Yarns. Simple and Complex yarns, Textured Yarns-Core Spun Yarn; Novelty and Fancy Yarns, Blended Yarns, Sewing Threads. Blends –purpose of blending, characteristics and advantages. Some common types of blends/ Yarn properties and their implications on quality: Fineness, Evenness, Yarn count, Yarn crimp, Yarn twist. Recent advances in yarn formation technology. Typical Real life case studies with reference to application.

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UNIT III

FABRIC CONSTRUCTION: Weaving- Types of Looms – classification of loom, basic loom, mechanism, Shuttle less looms – air jet, water jet, Rapier, projectile loom. Difference between shuttle & shuttle less loom. Basic elements of woven design – design, draft and peg plan. Types of drafting plan. Classification of weaves - Basic weaves and Decorative weaves - characteristic features and application. Recent advances in weaving and introduction to fabric design software like Digi Bunnai etc.

Knitting: Knitting process and Classification of knit fabrics – Characteristic features and applications. Knitting machines, Techniques for knitwear production- fully-cut, fully-fashioned and integral.

Non-woven: Classification and Production of Non-woven fabrics, Characteristic features, properties and application in various sectors- apparel and industrial

Other methods of fabric construction, Braids, Nets and Laces, Tufted, Narrow fabrics and other types.

Recent advances in Fabric formation technology. Typical Real life case studies with reference to application

UNIT IV

FABRIC PROPERTIES AND QUALITY MANAGEMENT: Performance properties – Tensile Strength, Thread Count, Dimensional Stability, Drape, Abrasion Resistance, Pilling, Creasing, Wash fastness, Light fastness and Crocking fastness, Fabric defects, types, causes and remedial measures, Fabric Inspection procedure, Tools for managing quality. Applications of AI in fabric defect detection and quality management. Real life case studies with reference to application

Suggested Readings:

1. Bhardwaj, S.K. and Mehta, P.V. (1998) Managing Quality in the Apparel Industry, New Delhi, New Age International
2. Black, M.E. (1966). The key to weaving New York: Macmillan.
3. Booth, J. E. (1982) Principle of Textile Testing, Meanness Butter worth scientific, London
4. Brackenbury, T. (2005). *Knitting Clothing Technology*, Blackwell Science Publishers
5. Brown, R. (1978). Weaving, spinning and dyeing book. London: Routledge&Kegan Paul.
6. Corbman, B. P. (1983) Fibre to Fabric: step by step weaving (6thEd.) New York: McGraw Hill.
7. Eric, O. (1975). *Spun Yarn Technology*, Butterworth Publication.
8. Gohl, E. P. G. and Vilensky, L. D. (1983) *Textile science*. Melbourne: Longman Cheshire.
9. Hearle, J.W.S. and Paters, P.H. (1975) .The Physical Testing of Textile Fibres, The Textile Institute Heinmann
10. Horrock A.R. and Anand, S.C. (2000). *Handbook of Technical Textiles*, Cambridge: Woodhead Publishing.
11. Kadelph, S.J. (1998) Quality Assurance of Textiles and Apparel, Fairchild publications
12. Kothari, V.K., Behera, B.K. (1996) Quality Control in Textiles and Apparel Industry A&B, Delhi, Department of Textile Technology.

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13. Rastogi, D. and Chopra, S. (Ed) (2017) *Textile science*, India: Orient Black Swan Publishing Limited.
14. Saville, B.P. (2000) *Physical Testing of Textiles*, Textiles Institute
15. Schwartz, P. (1979) *Fabric Forming Systems*, School of Textiles, North Carolina State University.
16. Sekhri S. (2016) *Textbook of Fabric Science: Fundamentals to Finishing*, 2E, Delhi: PHI Learning Private Ltd.
17. Spencer, D.J. (2005) *Knitting Technology: A Comprehensive Handbook and Practical Guide*, 4th ed. Cambridge: Woodhead Publishing.
18. Stamper, Anita A. (2005) Linda B Donnell, *Evaluating Apparel Quality*, 2nd ed., Fairchild Publication
19. Trotman, E. R. (1984) *Dyeing and Chemical Technology of Fibers*, Sixth Edition, England: Charles Griffin and Company Ltd.
20. Patterson D W: *Introduction to Artificial Intelligence & Expert Systems*, Prentice Hall India, New Delhi (2002).
21. Freeman J A and Skapura D M: *Neural Networks, Algorithms, Applications & Programming Techniques*; Pearson Education India, (2001).
22. Russel Sand Norvig P: *Artificial Intelligence: A Modern Approach*, Pearson Education India (2004).

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Semester I
Course Nomenclature: Fashion Design Presentation Techniques-1
Course Code: 24PN-FD-103
Course Type: DSC-III

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100

External Assessment Marks: 70

Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the presentation techniques used in Fashion Design for new product development.

Course Outcomes: After completion of the course, learners will be able to:

CO1: Understand different presentation techniques

CO2: Understand how to use Flat sketches for presentation purposes

CO3: Familiarize with various tools and methods used in presentation techniques

CO4: Develop design ideas for different presentation techniques

CO5: Apply mood board and storyboard for presentation techniques in Fashion and Lifestyle Design

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of Seven short questions of 2 marks each covering the whole syllabus. In addition, eight more questions of 14 marks each will be set unit-wise, consisting of two questions from each of the four units. The candidates are required to attempt one compulsory question and four more questions selecting at least one question from each unit.

UNIT I

Presenting Techniques: - Introduction, understanding how elements and principles of design are used in Presentation techniques, Different ideas about developing Flat sketches, Mood board, Storyboard, Swatch Board, Texture board, working drawing – costing, spec-sheet, development of garments by drafting, draping and flat pattern. Concept board.

UNIT - II

Selection tools in adobe Photoshop: selection by shape, colour and mask, Colour specification tools, Image adjustment modes, layer blending modes and their options. Different brush tools and their dynamics options, Colour fill: Paint and gradient, Clone tool, colour modification via dodge, burn, colour replacement, mixer etc.

UNIT - III

Layer masking, Texture mapping, Filter applications for fancy effects, layer functions, Working with displacement maps, texture maps. Basic vector shape drawing tools, shape editing via anchor points etc., Generation of graphic silhouettes, mixed media techniques, collage, water colour, working with oils and wood textures etc. Engineered print marker development for different ranges of garments (T-shirts, suits, sarees, stoles, jackets), accessories (scarves, bags, ties) home –textiles (bed-sheets, curtains, cushion covers, table runners etc.)

UNIT - IV

Requirements and types of portfolios, components of portfolio, Digital portfolio, Creative Visual boards in presentation, visual marketing tools, presentation analysis, types of presentation formats, design inspiration, board elements, assembly and layouts.

Suggested Readings:

1. Campbell, D et. Al (2001), How to develop a professional portfolio, Allyn & Bacon by Waterier, John W.
2. Aspelund Karl, 2010, Design Process, Fairchild Publication
3. Seivewright Simon 2012, Basics Fashion, Design -Research and Design, Bloomsbury Publication India.
4. K G Dickerson, Inside the Fashion Business
5. G S Frings Fashion from Concept to Consumer

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Semester I
Course Nomenclature: Textile and Garment Design by Surface Ornamentation Techniques
Course Code: 24PN-FD-104
Course Type: DSC-IV

Credits: 4
Duration of Exam: 3 Hrs.

Max. Marks: 100
External Assessment Marks: 70
Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the various methods and techniques of designing Textile and Garment and recent developments thereof.

Course Outcomes: After completion of the course, learners will be able to:

- CO1: Relate significance and techniques of Surface Ornamentation.
- CO2: Apply surface ornamentation techniques in textiles and garments
- CO3: Design textiles, apparels & accessories using various techniques of surface ornamentation
- CO4: Understand application of ornamentation in textiles and garments

***Note for the Paper Setter:** The question paper will consist of nine questions in all. The first question will be compulsory and will consist of Seven short questions of 2 marks each covering the whole syllabus. In addition, eight more questions of 14 marks each will be set unit-wise, consisting of two questions from each of the four units. The candidates are required to attempt one compulsory question and four more questions selecting at least one question from each unit.*

UNIT-I

Brief Introduction to basic design concepts and elements of design. Introduction to surface ornamentation of textiles and garments. Significance of surface ornamentation on textiles for value addition. Design enhancement by surface ornamentation. Motif, design and theme selection for surface ornamentation. Designer's inspiration for embellishment. Introduction to designers and brands using different surface ornamentation techniques.

UNIT - II

Classification and styles of surface ornamentation with reference to geographical factors and techniques employed. Factors affecting selection of different surface ornamentation techniques. Introduction to regional embroidery techniques - Phulkari, Kantha, Kasuti, Chikankari etc.

Other techniques of surface ornamentation like crocheting, tatting, smocking, ribbon work, fabric painting, eyelet work, cut work, drawn thread work, applique, fabric manipulation, trim sewing lace work, bead work, zardosi, resist dyeing - tie and dye, shibori, battick, rust dyeing, eco dyeing.

Printing- block, transfer, screen, stencil, digital and inkjet printing techniques as a means for surface ornamentation and value addition.

UNIT - III

Tools, equipment and materials required for surface ornamentation. Materials required for surface ornamentation – textile and -textile materials, different trims and notions, gimps, braid, passementerie, tassels, sequins etc.

UNIT - IV

Modern techniques of textile and garment surface ornamentation. Intervention of CAD for surface ornamentation. Application of textile and surface ornamentation in home textiles, apparels and accessories. Rendering, sketching and designing of apparels and accessories using surface ornamentation techniques.

Suggested Readings

- | | |
|--|----------------------------------|
| 1. T. Karthik, P. Ganesan, D. Gopalakrishnan | Apparel Manufacturing Technology |
| 2. Celia Stall-Meadows | Know your Fashion Accessories |
| 3. Nirmala C Mistry | Embroidery Design |
| 4. John Gillow | Traditional Indian Textiles |

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Semester I
Course Nomenclature: **ADVANCED FASHION ILLUSTRATION**
Course Code: 24PN-FD-105
Course Type: DSC-V

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100

External Assessment Marks: 70

Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the various methods of Fashion Illustration techniques.

Course Outcomes: After completion of the course, learners will be able to:

CO1: Draw fashion figures by understanding body proportion

CO2: Focus on design details, creation of styles and rendering techniques using different media and themes.

CO3: Sketch of different action croquis (front, back and side view) Manual/CAD

CO4: Draw different necklines, collars, sleeves, etc.

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of Seven short questions of 2 marks each covering the whole syllabus. In addition, eight more questions of 14 marks each will be set unit-wise, consisting of two questions from each of the four units. The candidates are required to attempt one compulsory question and four more questions selecting at least one question from each unit.

UNIT - I

Normal figure proportions, Fashion Figure proportions, Fashion figure in different views Front View, Back View, Side View, 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.

UNIT - II

Drawing of different necklines, collars, sleeves, etc., Exploring and designing different types of garments such as skirts, pants, blouses, etc. according to market trends. Basics of illustrations for fashion details: necklines, sleeves, collars, pockets, skirts, pleats etc. Introduction to different types of silhouettes prevalent in fashion industry, Features of computer aided illustration techniques, common software and their uses

UNIT - III

Sketching of Garments and Garments Details (Manual/ CAD):- Necklines and collars, Sleeves details, Skirts and pants, Blouses, coats and jackets, Pleats, cowls and cascades, Yokes and underskirts, Sketching of Accessories: - Fashion and lifestyle accessories, Hats and headgears, Footwear Bags and purses, Jewellery, Any other accessories

UNIT - IV

Sketching of Theme based Garments and Garments Details (Manual/ CAD): Necklines and collars, Sleeves details, Skirts and pants, Blouses, coats and jackets, Pleats, cowls and cascades, Yokes and underskirts, Sketching of Accessories: - Fashion and lifestyle accessories, Hats and headgears, Footwear Bags and purses, Jewellery, Any other accessories

Based on fashion forecast, develop a mood board and colour board and design a line of 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 presentation, Use of sale promotion material.

Suggested Readings:

1. Abbing Bina, Fashion Sketchbook 2023, 8th edition, Fairchild Publishers, New York.
2. Anna Kiper, Fashion Illustration: Inspiration and Techniques, 2016, David and Charles.
3. David Downton, Master of Fashion Illustration 2012, Laurence King Publication.
4. Gwyneth Holland, Rae Jones, Fashion Trend Forecasting 2017, Laurence 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 Forecasting 2015, Fairchild book.
8. Stuart McKenzie, Creative Fashion Illustration 2020, Bloomsbury Publishing.
9. Zeshu Takamura, Fashion Illustration Techniques: Super Reference Book for Beginners 2012, Packport Publisher.
10. Maite Lafuente, "Fashion Illustration techniques", Om Publication.
11. Fernandez, "Illustration for Fashion Design 12 Steps to the Fashion Figure", Pearson.

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Semester I

Course Nomenclature: Advanced Garment Design and Construction (Pr)

Course Code: 24PN-FD-SEC101

Course Type: SEC-I

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100

External Assessment Marks: 70

Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the various methods and techniques of designing Textile and Garment and recent developments thereof.

Course Outcomes: After completion of the course, learners will be able to:

CO1: Design and develop draft patterns for different garments based on body measurements and adaptations.

CO2: Handle different fabrics, embellishments and lifestyle accessories

CO3: Design and develop theme based ethnic casualwear, partywear and lifestyle accessories

CO4: Understand different garment designing techniques

UNIT - I

Use of Adobe photoshop and Corel-draw for basic and advanced Fashion and Lifestyle design via Shape drawing, Filling effects, Painting tool, Pattern stamping tools, Fancy brush effect, Croqui drawing etc., Developing silhouettes—draping, fold lines, prints, etc. Photo analysis, fabric rendering, simple illustration on fashion figures. Designing and sketching of the following fashion essentials: types of necklines, type of sleeves, type of collars, type of pockets, type of yokes, types of skirts, type of waistlines, type of pleats, tucks, types of plackets, etc. Designing of various garments from the following categories: Children wear, Ladies' wear, Men's wear, Nightwear, Apron, etc. Practice on editing of Fashion and Lifestyle design work on the computer.

UNIT - II

Introduction to Fashion and garment designing softwares. CLO3D, Fashion and lifestyle design software, Fashion, Lifestyle and Fabric designing with technical & graphical parameters on suitable softwares. Motif generation through geometry of patterns on dedicated softwares. Mood board, storyboard, and portfolio generation for innovative fashion themes for Women's wear, Men's wear and Kids wear. Garment designing with the concepts of Pattern Making, Grading, Marker making and plotting of patterns like basic bodice blocks, shirts, trousers, etc.

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UNIT - III

Design and develop basic Bodice Blocks, Front and back, sleeve, shirt front and back, Design and Construct garments using suitable themes, Casual Ethnic wear like Salwar / Churidar/ palazzo/ straight pants/ Kurta. Design and Construct garments using the theme of Ethnic Party Wear.

UNIT - IV

Modern techniques of Fashion & Lifestyle design. Intervention of CAD software for designing fashionable and lifestyle products. Design and developing Theme Based Mood Board, Storyboard, Colour Board, Concept board, Swatch Board. Designing of lifestyle accessories based on Market Survey.

List of experiments: Designing, pattern making and garment construction of the following

1. Party wear dress for kids.
2. Kids night suit.
3. Plain Kurti.
4. Salwar and pajami.
5. Basic Skirt.
6. Four/Six kali Petticoat.
7. Basic Saree blouse.
8. One-piece dresses like gowns.
9. Palazzo, etc.

Evaluation Scheme: Students will be evaluated both Internally and Externally. Evaluation will be done based on Practical files, Continuous assessment based on their practical work in the classes as well as Viva-voce and practical examination conducted by the Internal and External Examiner

Suggested Readings:

1. Armstrong, Patternmaking for Fashion Design, Dorling Kindersley publication.
2. Aldrich, Metric Pattern Cutting for Children wear & baby wear, Blackwell publication.
3. Aldrich, Pattern Cutting for Women tailored Jacket, Blackwell publication.
4. Holman, Pattern Cutting Made Easy, Batsford publication.
5. Cooklin, Pattern Grading Women's cloth, Blackwell publication.
6. Abling, Bina and Maggio, Kathleen, integrating draping, drafting and drawing, Fairchild Books, Inc.
7. Connie Amaden Crawford, The Art of Fashion and Design, Fairchild Publications
8. Jaffe, Hilde and Relis, Nurie, Draping for fashion design, Pearson Prentice Hall
9. Draping for fashion design: Nurie Relis/ Hilde Jaffe, Reston publishing co.
10. Designs cutting and draping for special occasion clothes: for evening wear and party Wear, Drawn Cloak, Chryssalis.
11. Bracknan, Helen L. 1965. Theory of Fashion Design, New York John Wiley & Sons
12. Helen Joseph, Armstrong. 2007. Draping for Apparel Design- Fairchild Publication, New York
13. Hilde Jaffe and Norie Relis. 1994. Draping for Dress Design (4th ed.) - Pearson Prentice Hall, New Jersey
14. Hill House M.S. & Mansfield E.A., 1944. Dress Design- Draping and Flat Pattern, London
15. Natalie Bray. 2003. Dress Fitting (2nd Ed.) Blackwell Science

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16. Natalie Bray.2003. More Dress Pattern Designing (4thEd.) Blackwell Science
17. Nora MacDonald,2009. Prentice Hall, Principles of Flat Pattern Design (2ndEd.) New Jersey
18. Popin, Harriet,1945. Modern Pattern Design, New York
19. Sheldon Maratha Gene.A974. Design through Draping, U.S.A. Burgers Publishing Company
20. Strickland Gertude, 2012. A Tailoring Manual, New York, Macmillan Company.
21. Adele P., 2019.The complete book of Tailoring, Margolis
22. David J. Tyler.1991. Material Management in Clothing Production
23. Gerry Cooklin, 1991.PatternGradingfor children's/ womens'/ men's clothing technology of sizing.
24. Oxford B.S.P. PROFESSIONAL BOOKS, London
25. Gerry Cooklin, 2012. Garment Technology for Fashion Designers, Black well Science Ltd.
26. Winifred Aldrich. 1987. Metric Pattern Cutting For children's wear (2-14years) 2nd edition
27. Winifred Aldrich. 1996. Metric Pattern Cutting for menswear 3rd edition
28. Winifred Aldrich. 1996. Metric Pattern Cutting for women's wear3rd edition

Online Content

1. <https://www.youtube.com/watch?v=1B9n4KFTRmE>
2. <https://textilelearner.net/drafting-of-mens-short-sleeve-shirt/>
3. https://www.academia.edu/27656962/PERSONAL_BASIC_PATTERN_MAKING_BLOCKS
4. https://cbseacademic.nic.in/web_material/publication/cbse/41BasicPatternDevelopment-XII.pdf
5. <https://www.clothingpatterns101.com/pattern-grading.html>
6. <https://www.onlineclothingstudy.com/2020/07/basics-of-pattern-grading.html>

Semester II
Course Nomenclature: Advanced Chemical Processing of Textiles
Course Code: 24PN-FD-201
Course Type: DSC-VI

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100

External Assessment Marks: 70

Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the various methods and techniques of Chemical Processing of Textile and Garment and recent developments thereof.

Course Outcomes: After completion of the course, learners will be able to:

CO1: Understand the need, significance and detailed various wet preparatory processes required to prepare the fabric for dyeing and printing of textiles

CO2: Analyze and compare different methods for the preparatory processes

CO3: Know about various machineries used for various wet processes.

CO4: Gain awareness of new advancements in the area of wet processes of Textiles and Garments

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of Seven short questions of 2 marks each covering the whole syllabus. In addition, eight more questions of 14 marks each will be set unit-wise, consisting of two questions from each of the four units. The candidates are required to attempt one compulsory question and four more questions selecting at least one question from each unit.

UNIT- I

Introduction: Relevance of chemical processing in Textile, Apparel, Fashion and Lifestyle performance. Sustainable Textiles, Garments, Fashion and Lifestyle products. Pre-treatment of textiles: Importance of pre-treatments, Cotton: desizing, scouring, bleaching, Mercerization, Wool: scouring, bleaching, Silk: degumming, bleaching, Synthetics: scouring, heat setting.

UNIT- II

Colouration of Textiles, Garments, Fashion and Lifestyle products : Colour perception, Hue, Chroma, Saturation; Dyes and pigments; Application wise classification of dyes, Principles of dyeing and application of dyes: Direct, Reactive, Vat on cotton, Disperse on polyester, Acid on wool and nylon, Basic on acrylic, silk, Natural dyes, Performance of dyed textiles; Fastness requirements for different end uses.

UNIT- III

Printing of Textiles, Garments, Fashion and Lifestyle: 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. Hand Printing, Block, Stencil, Screen Printing, Digital Printing, Introduction to equipment and machineries used in Printing, Advancements of equipment and machineries used in Printing

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UNIT-IV

Finishing of Textiles, Garments, Fashion and Lifestyle: 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. Introduction to equipment and machineries used in Processing, such as kier/ J-box, winch, jigger, padding mangle, steamer, curing chamber, washing unit, jet dyeing. Advancements of equipment and machineries used in Finishing

Suggested Readings:

1. Blackburn, R. (2009). Sustainable Textiles: Life Cycle and Environmental Impact. Woodhead Pub.Ltd.
2. MirafTAB, M., & Horrocks, R. (2007). Eco Textiles. Woodhead Pub.Ltd, Cambridge.
3. Sangeetha, K. (2017). Eco Textiles and Sustainability. Laser Park Publishing House. SNDTWU Faculty of Science and Technology M.Sc. Home Science-Fashion Design and Textile 2023- 24
4. Cook, J. Gordon. (n.d.). Handbook of Textile Fibers. Merrow Publishing Co. Ltd, England.
5. Lewin, M., & Sello, S. B. (1983). Handbook of Fiber Science and Technology, Vol. II, Chemical Process of Fibres and Fabrics, Functional Finishes Part A. Marcel Decker, Inc, NY and Basel.
6. Mark, H., Wooding, N. S., & Atlas Smeeds. (1970). Chemicals after Treatment of Textiles. John Wiley & Sons Inc., NY.
7. Marsh, J. T. (1979). An Introduction to Textile Finishing. B. I. Publications.
8. Moncrief, R. W. (n.d.). Manmade Fibres. John Wiley & Sons.
9. Shenai, V. A., & Mehra, R. H. (1984). Evaluation of Textile Chemicals, Vol. VIII.
10. Shenai, V. A., & Saraf, N. M. (n.d.). Chemistry of Organic Textile Chemicals. Sevak Pub.
11. Shenai, V. A. (1987). Chemistry of Dyes & Principles of Dyes, Vol. III, Edition III. Sevak Pub.
12. Shenai, V. A. (1990). Textile Fibers, Vol. I, Edition III. Sevak Pub.
13. Shenai, V. A., & Saraf, N. M. (1990). Technology of Finishing, Vol. X.II Edition. Sevak Pub.
14. Shenai, V. A. (1984). Technology of Dyeing, Vol. I, Edition III. Sevak Pub.
15. Shenai, V. A. (1988). Technology of Dyeing, Vol. VI. Sevak Pub.
16. Shenai, V. A. (1984). Technology of Textile Processing, Vol. IX. Sevak Publication.
17. Shenai, V. A. (1984). Fundamental Principles of Textile Processing, Vol. IX, I Edition. Sevak Pub.
18. Trotman, E. R. (1975). Dyeing and Chemical Technology of Textile Fibers. Charles Griffino Company Ltd, London

Online Contents

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

Parade

Semester II
Course Nomenclature: Apparel Merchandising and Marketing
Course Code: 24PN-FD-202
Course Type: DSC-VII

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100
External Assessment Marks: 70
Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the various methods and techniques of Apparel Marketing and Merchandising.

Course Outcomes: After completion of the course, learners will be able to:

CO1: Understand the need, significance and detailed processes required for Apparel & Fashion Marketing & Merchandising

CO2: Understand the concept of markets, consumers and merchandising

CO3: Know about various raw materials and costing of fashion, apparel and lifestyle products.

CO4: Gain awareness of different kinds of marketing & merchandising techniques

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of Seven short questions of 2 marks each covering the whole syllabus. In addition, eight more questions of 14 marks each will be set unit-wise, consisting of two questions from each of the four units. The candidates are required to attempt one compulsory question and four more questions selecting at least one question from each unit.

UNIT- I

Introduction: Relevance of Merchandising in Textile, Apparel, Fashion and Lifestyle products, 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

UNIT- II

Fashion & Lifestyle products & Fabric and Apparel Production & Quality Management. Fashion Buying, Role of Fashion Buyer, Predicting Fashion Trends, Fashion & Lifestyle products sourcing, Fabric and Garment Sourcing and Digital Sourcing, Working with Vendors

UNIT- III

Production, Planning & Control, The Fashion and lifestyle Merchandising Assortment Plan, Working with Budget, Analysing and Selecting Resources. Principles of Marketing and Merchandising of Fashion & Lifestyle products & Fabric and Apparel products.

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UNIT- IV

Fashion & Lifestyle products & Fabric and Apparel Costing, Definition of Cost & Other Common Terms, Dollar control, Discounts-Types, negotiations & Specifications with Vendors and Customers.

Suggested Readings:

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 Costing- 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 High Street, 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.
7. William, P., Cannon, J. P., Cannon, J., & McCarthy, E. J. (2011). *Essentials of Marketing*. McGraw-Hill Education.
8. Wolfe, M. G. (2013). *Fashion Marketing and Merchandising*. Goodheart-Willcox Company, Incorporated.
9. Blackburn, R. (2009). *Sustainable Textiles: Life Cycle and Environmental Impact*. Woodhead Pub.Ltd.
10. Miraftab, M., & Horrocks, R. (2007). *Eco Textiles*. Woodhead Pub.Ltd, Cambridge.
11. Sangeetha, K. (2017). *Eco Textiles and Sustainability*. Laser Park Publishing House. SNTDWU Faculty of Science and Technology M.Sc. Home Science-Fashion Design and Textile 2023- 24

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Semester II
Course Nomenclature: Digital Fashion Illustration
Course Code: 24PN-FD-203
Course Type: DSC-VIII

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100

External Assessment Marks: 70

Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the various methods of Digital Fashion Illustration techniques.

Course Outcomes: After completion of the course, learners will be able to:

CO1: Understand the concept of normal and fashion figure proportion, grid theory, basics of fashion illustrations

CO2: Familiarize CorelDRAW interface tool box, shape drawing tools

CO3: Understand simple and artistic texts, the power of blended distortions

CO4: Know the blending tools, contour effects

***Note for the Paper Setter:** The question paper will consist of nine questions in all. The first question will be compulsory and will consist of Seven short questions of 2 marks each covering the whole syllabus. In addition, eight more questions of 14 marks each will be set unit-wise, consisting of two questions from each of the four units. The candidates are required to attempt one compulsory question and four more questions selecting at least one question from each unit.*

UNIT - I

Normal figure proportions, Grid theory for formation of fashion figures. Fashion Figure proportions, Fashion figure in different views Front View, Back View, Side View. Basics of illustrations for fashion details: necklines, sleeves, collars, pockets, skirts, pleats etc. Introduction to different types of silhouettes prevalent in fashion industry, Features of computer aided illustration techniques, common software and their uses

UNIT - II

Introduction to Vector and Raster Graphics Type, Introduction to CorelDraw Interface Tool Box, working with shape drawing tools for lines, rectangles, squares, circles, ellipses, polygons, stars and spirals etc. Object transformations as rotation, scaling etc. freely and for specific dimensions, Selecting Objects, reshaping, duplicating, grouping, trimming, locking and unlocking, aligning objects. Introduction to curves, nodes and segments, drawing freehand tools, Drawing and selecting closed curves and nodes, Adding, removing and joining nodes. Bezier tool, drawing curve and straight line with bezier tools

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UNIT - III

Creating and Formatting simple and artistic texts and paragraphs, embedding objects into text using CAD software like Fashion Illustrator, CorelDRAW, Photoshop.

Applying effects, Introduction power of blends distortion, Contour effects, Envelopes Lens effects, Transparency, creating depth effects, Power clips working, Applying colour fills and Outlines. Working with Fill and Outlines to any shape outlines, outline options as flyout, line art, stencil etc. Introduction to Fills, uniform, interactive as fountain fill, tow-colour, preset fountain, pattern fills, bitmap pattern fills etc.

UNIT - IV

Drawing with artistic media tools using preset and brush mode. Special Effects, blending tool, Contouring objects, Distorting objects, Envelope Tool, Extruding of the object, Vector Extrusion. Creating and editing drop shadow, Removing drop shadows. Applying Lenses, Applying Perspectives. Filters, Gradients, Patterns, Textures, Swatches effects, Layouts (Development of different types of Boards). Brief introduction to editing Bitmaps and Applying effects on Bitmaps. Drawing Basic Male, Female and Kids Figure, fashion details in Corel Draw with Grids and Guidelines. Saving and Exporting Images options. Development of Moodboard, Storyboard, Portfolio using different CAD software.

Suggested Readings:

1. Maite Lafuente, "Fashion Illustration techniques", Om Publication.
2. Fernandez, "Illustration for Fashion Design 12 Steps to the Fashion Figure", Pearson.
3. Prepared, Prakashan, B Abing, "Anatomy and Drawing", Fairchild.
4. Ireland, "Fashion Design Drawing and Presentation", Batsford.
5. Anne allen, "Fashion Drawing: the basic principle", Om Publication.
6. Mckelvey, Fashion Design, Blackwell
7. Ireland, Fashion Design Illustration: Children, Batsford
8. Ireland, Fashion Design & Drawing & Presentation, Batsford

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Semester II

Course Nomenclature: Quality Control in Fashion & Apparel Industries

Course Code: 24PN-FD-204

Course Type: DSC-IX

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100

External Assessment Marks: 70

Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the various methods of Quality Assurance & Control in Fashion & Apparel Industries.

Course Outcomes: After completion of the course, learners will be able to:

CO1: Understand the concept of Quality with reference to Fashion & Lifestyle products

CO2: Familiarize with the different testing equipment, their underlying principles and the international accepted standards, test methods and the language of measurement

CO3: Understand Quality Control tools & Quality Assurance methods in Fashion industries, Testing of various products

CO4: Know different Inspection systems, Inspection loop, ISO standards, Care labelling

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of Seven short questions of 2 marks each covering the whole syllabus. In addition, eight more questions of 14 marks each will be set unit-wise, consisting of two questions from each of the four units. The candidates are required to attempt one compulsory question and four more questions selecting at least one question from each unit.

UNIT - I

Definition and importance of Quality, Tools of quality control, Quality Control – Principles of Quality Control, total quality control, statistical quality control, quality circle, quality and profitability, Quality control in Fashion & Lifestyle products, Textile and Apparel products.

UNIT - II

Inspection – Definition, inspection, loop, raw material inspection, in-process inspection, final inspection, comparability checks. ISO-9000 series of standards. Quality assurance, TQM, Six Sigma. Care labeling of apparel and textiles – American care labeling system, British care labeling system, Japanese care labelling system.

UNIT - III

Importance of Textile Testing and analysis, objectives (reasons) of textile testing, uses of Testing information, Factors influencing Quality Control, Sampling, terms used in sampling, Fabric and Garment Testing, Strength Properties of Textile and Apparels. Tensile Strength: Factors affecting tensile testing, fabric characteristics affecting tensile properties, tensile testing machines and their working principles. 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

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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

UNIT - IV

Fabric Stiffness and Handle – definitions, methods of measuring fabric, stiffness - Shirley stiffness test, Hanging loop method Drape – definitions, methods of measuring fabric drape – drape meter. Crease Resistance and Crease Recovery – definitions of terms, advantages of giving resin treatment to fabrics, fabric characteristics affecting wrinkle resistance, methods of measuring crease recovery – Total test, Shirley crease recovery test, visual comparison method, Kawabata Evaluation system (KES) for fabrics, Fabric Assurance by Simple Testing (FAST) system

Suggested Readings:

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.
3. George Stylios. 1991. Textile Objective Measurement Automation in Garment Manufacture, Ellis Horwood Ltd, England
4. Grover and Hamby. 2011. Handbook of Textile Testing and Quality Control
5. J. E. Booth. 1968. Principles of Textile Testing, Newness Butterworth, London.
6. John H. Skinkle. 1949. Brooklyn, Textile Testing, New York.
7. Pradip V. Mehta. 2001. An Introduction to Quality Control for Apparel Industry, Marcel Dekker, New York.
8. Textile Testing & Quality Control Standards like – BIS, BS, ASTM, ISO, AATCC, etc.
9. Abhijit Majumdar, Apurba Das, R. Alagirusamy and V. K. Kothari, "Process Control in Textile Manufacturing", Woodhead Publishing, 2013.
10. Pradip V. Mehta, P. E. Satish, K. Bhardwaj, "Managing Quality in The Apparel Industry", New Age International Private Limited Publishers, Delhi, 2006.
11. P. W. Harrison, "On-line Quality Control in Spinning and Weaving", The Textile Institute, 1988.

Online Contents

1. <https://www.aatcc.org/testing/>
2. <https://humiditycontrol.com/what-is-textile-testing/>
3. <https://study.com/learn/lesson/textile-testing-methods-importance.html>
4. services.bis.gov.in/php/BIS_2.0/dgdashboard/Published_Standards_new/revisedstandardslist?epid=NzE%3D&depname=VFhE&aspect=&doc=&dt_from=2022-01-09&dt_to=2022-01-09&dt_to=2022-01-09
5. <http://www.btraindia.com/wp-content/uploads/2022/08/Tests-Available.pdf>

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Semester II
Course Nomenclature: Fashion & Lifestyle Accessory designing
Course Code: 24PN-FD-205
Course Type: DSC-X

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100

External Assessment Marks: 70

Internal Assessment Marks: 30

Objective: The main objective of this subject is to make the students understand the various types of Fashion & Lifestyle Accessories designing

Course Outcomes: After completion of the course, learners will be able to:

- CO1: Impart knowledge of Fashion and Lifestyle Accessories and different aspects involved.
- CO2: Familiarize with the art of accessory designing so that they can complement their garment designs with appropriate accessories
- CO3: familiarize with various materials used in making jewellery and other fashion accessories
- CO4: Develop the skills and techniques of accessory designing and appreciate its commercial values

Note for the Paper Setter: The question paper will consist of nine questions in all. The first question will be compulsory and will consist of Seven short questions of 2 marks each covering the whole syllabus. In addition, eight more questions of 14 marks each will be set unit-wise, consisting of two questions from each of the four units. The candidates are required to attempt one compulsory question and four more questions selecting at least one question from each unit.

UNIT - I

Fashion and Lifestyle Accessories – definition and classification – wearable, drape able. Different textile and non textile raw materials used - fancy yarns, woven and knitted fabrics, narrow fabrics, leather, fur, beads, metal. Various types of notions and trims used in fashion accessories – zippers, Velcro, snap fasteners, eyelets, frog closures etc. Product life cycle of fashion accessories. Forecasting & trend analysis for accessories, Major accessory brands and retail outlets. Knitted accessories – pantyhose, socks, gloves, stockings & mittens: Designing, materials, Construction, styles and care. Hats: Designing, construction, styles & care of hats. Drape able accessories- Stoles & scarves: Designing, construction, styles& care.

UNIT-II

Footwear designing – textile and non textile raw materials, trims & notions used for footwear construction. Parts of shoe, brief shoe designing – as last, development last, designer last, pattern making, die-manufacturing, cutting, fitting, assemblage of remaining components, bottoming and finishing. Caring of footwear. Styles of men's and women footwear – oxford, moccasin, wingtip, ballerinas, stilettos. Major footwear brands.

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UNIT-III

Jewellery Designing: Different metals and stones, faceted cuts used for jewellery designing. Brief production techniques as fusing, soldering, cutting etc, stone settings, Different jewellery styles as rings, bracelets, necklaces, tiara etc. Different stone settings such as buttercup, prong, cluster inlay etc.

UNIT-IV

An overview of leather accessory categories— footwear, handbags, hats, gloves & belts. Leather Footwear design & development -Leather handbags – components of handbags, manual or computerized designing , construction – pattern making, cutting, assembling, finishing & embellishment. Styles of leather handbags – clutch, envelope, saddle, sling bag etc. Major leather handbag brands. Leather Hats, gloves and belts – components, construction methods, style and care.

Suggested Readings:

1. Bina Abbing, , "Fashion Sketch Book", Om Publication.
2. Frings "Fashion from ,Concept to Consumer 7th Edition", Pearson.
3. Tate, "Inside Fashion Design,"
4. Dorling Kindersley, Meadows Celia Stall, "Know your Fashion Accessories", Fairchild books, 2003.
5. Tyler, "Carr and Latham's Technology of Clothing Manufacturing" Blackwell, Scientific Publications, 1988.
6. Diamond Ellen and Diamond Jay,"Fashion Apparel & Accessories and Home Furnishing", Pearsons Prentice Hall, NJ, 2007.

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Semester II
Course Nomenclature: Garment & Lifestyle Accessory designing (Pr.)
Course Code: 24PN-FD-SEC201
Course Type: SEC-II

Credits: 4

Duration of Exam: 3 Hrs.

Max. Marks: 100

External Assessment Marks: 70

Internal Assessment Marks: 30

Objective: The main objective of this subject is to develop skills amongst the students about the various types of Fashion, Garment & Lifestyle accessories designing

Course Outcomes: After completion of the course, learners will be able to:

- CO1: Understanding the fundamentals, principles and application of CAD knowledge of Fashion and Lifestyle Accessories design
- CO2: Develop skills through hands on training to students on Photoshop and Corel Draw software and their use in the Fashion and Accessory Designing field
- CO3: Learn about print development, logo designing, making fashion accessories and garment designing with the help of CAD software
- CO4: Develop the skills and techniques of Garment and Fashion Lifestyle accessory designing and appreciate its commercial values

UNIT - I

General Fashion and Lifestyle accessories Glove: Material used, component part of glove, glove construction, care of glove. Hosiery: Materials, Construction, Sizes and Care. Hats: Construction, care of hats. Scarves: Construction, Care and styles.

UNIT - II

Computer application in Fashion and Lifestyle accessories designing, CAD and its application in different designs. Applications of AI in Accessories Design Visit to different Malls, Boutiques and to study fashion accessories designing of various products Submission of a real-life accessory design project

UNIT - III

Introduction to CorelDraw: Introduction to Vector and Raster Graphics Type. Starting CorelDraw, Introduction to Corel Draw Menu, Introduction to Corel Draw page Setup. Introduction to various tools of Corel Draw.

UNIT - IV

Introduction to Photoshop, Details of Photoshop including 2D and 3D graphic design, Other Fashion design software, CLO 3D software, Textile design software, Fashion Studio, Reach Software, Optitex, Arhane, TukaCAD, Garment and Apparel Design Software and CAD software for Fashion & Lifestyle Accessories designing,

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List of experiments to be performed:

- Creating rectangles, squares, Circles, Ellipses, Polygons, Starts and Spirals
- Selecting Fill and Outlines to any shape.
- Moving & Rotating Shapes freely and to Fixed angles.
- Working with Drawing Curves and Straight Lines, Creating Simple and Artistic Texts.
- Working with Formatting Texts by changing Font, Size and Shape of Text.
- Rotating texts, assigning a Fill, grouping objects.
- Special effects
- Drawing of fashion and Lifestyle accessories using Corel draw.
- Drawing of Block Figure and different views using Corel draw.
- Drawing of Fleshing Figure (Croqui) by using Corel draw.
- Creating Textile, garment and Fashion accessories Printing by using Coreldraw.
- Draping the Fashion details on fashion figures.
- Design a garment for Children/men/women (any approx 6 designs by using theme) like Casual Wear, Formal Wear, Western Wear, Ethnic Wear, Street Wear etc.
- Practical exposure on Adobe Photoshop.
- Different transformation features implementations.
- Designing the magazine cover page
- Cloning using Photoshop.
- Blending of different layers of images using Photoshop.
- Creating a mood board using Photoshop.
- Apply tools and techniques in creating basic shapes, figures using Corel Draw.
- Develop garment designing by using CAD softwares.
- Appreciate and acquire skills of Photoshop in Fashion and Lifestyle designing.
- utilize the CAD software in Fashion & apparel industry
- Sketching and designing of different fashion accessories
- Study of different brands related to fashion accessories
- Practice of making fashion accessories
- Practice of CAD in designing Fashion and Lifestyle accessories

Evaluation Scheme: Students will be evaluated both Internally and Externally. Evaluation will be done based on Practical files, Continuous assessment based on their practical work in the classes as well as Viva-voce and practical examination conducted by the Internal and External Examiner

Suggested readings:

1. CAD for Fashion Design by Renee Weiss Chase, Prentice Hall Pub.
2. CAD/CAM Computer Aided Design & Manufacturing by Mikell P Groover & Mory
3. W Zimmers. Jr, Pearson Education Pub.2000
4. CAD/CAM/CIM by R.Radhakrishnan, S.subramanyan, V.Raju, New Age International Pub.
5. Fashion Design on Computers By M.kathleen Colursy, Prentice Hall.2004.
6. Winfred Aldrich, CAD in Clothing & Textiles, Blackwell Science, 1994.
7. Adobe Photoshop and Textile Design! By Frederick L Chipkin
8. Beazley & Bond, Computer Aided Pattern Design & Product Development, Blackwell.

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9. Mikcle P Groover, Emory W. Zimmers Jr., Computer Aided Design & Manufacturing.
10. Andeies Van Da Shvan K Feiner and John F Hughes, Computer Graphics Principles & Practices, Second Edition, James D Foley,
11. George Omura, Mastering AUTOCAD 2004 & AUTOCAD LT 2004,
12. Donald Mea, Computer Graphics, M & M Pauline Baker

Reading Lists:

1. Know your Fashion Accessories Meadows
2. Fashion Apparel & Accessories Diamond, Jay & Ellen
3. Fashion Accessories: The complete 20th Century sourcebook, John Peacock, Thames and Hudson, 2000

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