



Dr. M.G.R. **EDUCATIONAL AND RESEARCH INSTITUTE** **UNIVERSITY**



UNIVERSITY WITH GRADED AUTONOMY STATUS

(An ISO 21001 : 2018 Certified Institution)

Periyar E.V.R High, Maduravoyal, Chennai - 95. Tamilnadu, India.



FACULTY OF HUMANITIES & SCIENCE

LEARNING OUTCOME BASED CURRICULUM

M.Sc.

FASHION DESIGN

CURRICULUM AND SYLLABUS

For students admitted from 2025-2026

DEPARTMENT OF FASHION DESIGN

Sponsored by

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M.Sc. (FASHION DESIGN)

Curriculum and Syllabus

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DEPARTMENT OF FASHION DESIGN

DECLARATION

I, **Ms. M.MAHMUDA BEGUM** Head of Fashion Design Department, hereby declare that this copy of the syllabus (M.Sc. – Fashion Design, Full time 2022 Regulation) from page number 1 to 102 is the final version which is being taught in the class and uploaded in our University website. I assure that the Syllabus available in our university website is verified and found correct. The Curriculum and Syllabi have been approved by our Academic Council / Vice Chancellor.

Date:

Signature



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FACULTY OF HUMANITIES & SCIENCE

DEPARTMENT OF FASHION DESIGN

VISION STATEMENT

To aspire toward the highest creative standards of excellence in teaching and service, fostering an environment where faculty and students alike are inspired to be active, imaginative thinkers and effective problem solvers.

MISSION STATEMENT

| | |
|-----------|---|
| M1 | Encourage innovation and originality in fashion design through a curriculum that emphasizes creativity, concept development and artistic expression. |
| M2 | Equip students with advanced research skills to explore cultural, historical, and technological aspects of fashion, enabling informed and trend-forward design solutions. |
| M3 | Prepare students for successful careers in the global fashion industry by integrating technical proficiency, digital tools, and real-world applications. |
| M4 | Support students in developing entrepreneurial skills to launch and manage their own fashion labels or startups. |
| M5 | Strengthen students ability to visually and verbally communicate design ideas through portfolios, presentations, and marketing strategies. |

PROGRAMME EDUCATIONAL OBJECTIVES

| | |
|-------------|---|
| PEO1 | Graduates will demonstrate advanced knowledge and skills in fashion design principles, techniques, and technologies, enabling them to create innovative and market-relevant fashion solutions. |
| PEO2 | Graduates will develop a strong creative vision combined with technical expertise in garment construction, textile science, and fashion illustration to excel in diverse fashion-related roles. |

| | |
|-------------|---|
| PEO3 | Graduates will be prepared for leadership roles in the fashion industry, including design houses, merchandising, production, and entrepreneurship, by understanding market trends, consumer behaviour, and sustainable practices. |
| PEO4 | Graduates will engage in research and innovation, contributing to advancements in fashion design through the exploration of new materials, technologies, and sustainable approaches. |
| PEO5 | Graduates will exhibit professionalism, ethical behaviour, and social responsibility, promoting sustainability and inclusivity within the global fashion industry. |

PROGRAMME OUTCOMES

| | |
|------------|---|
| PO1 | Acquire in-depth knowledge related to the discipline. |
| PO2 | Apply the recent advancement in the domain knowledge for solving real-life problems. |
| PO3 | Demonstrate critical thinking skills by analyzing, synthesizing and evaluating various research problems |
| PO4 | Identify and use qualitative and quantitative methods of research in order to pursue a well- researched written work that makes use of wide range of disciplinary techniques and scientific methods applicable. |
| PO5 | Conceive the ways and means to address various social, economic, environmental, human rights and other ethical issues faced by humanity at the local, national and global levels. |
| PO6 | Demonstrate Professional, leadership and Management skills required for professional development and employability. |
| PO7 | Demonstrate the ability for collaborative work and scientific communication through projects, internship and on-site training. |
| PO8 | Use mathematical, analytical, statistical and information technology tools. |
| PO9 | Ability to update knowledge and skills, participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development. |

PROGRAMME SPECIFIC OUTCOMES

| | |
|-------------|--|
| PSO1 | Apply advanced concepts of fashion design, textiles, and garment construction to create innovative, sustainable and market-relevant fashion collections. |
| PSO2 | Demonstrate originality and critical thinking in solving complex design problems through conceptual development, trend analysis, and creative exploration. |
| PSO3 | Master advanced technical skills in digital fashion illustration, CAD, pattern drafting, draping, and apparel production technologies. |
| PSO4 | Exhibit professional and entrepreneurial skills necessary for careers in fashion design, merchandising, fashion media, and brand development. |

PEO WITH MISSION STATEMENT MAPPING

| | M1 | M2 | M3 | M4 | M5 |
|-------------|-----------|-----------|-----------|-----------|-----------|
| PEO1 | 3 | 2 | 3 | 3 | 3 |
| PEO2 | 3 | 2 | 3 | 2 | 3 |
| PEO3 | 3 | 3 | 3 | 3 | 3 |
| PEO4 | 3 | 2 | 3 | 3 | 3 |
| PEO5 | 3 | 3 | 2 | 3 | 2 |

PEO WITH PO MAPPING

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PEO1 | 3 |
| PEO2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| PEO3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| PEO4 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 |
| PEO5 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |

PEO-PSO MAPPING

| | PSO1 | PSO2 | PSO3 | PSO4 |
|-------------|-------------|-------------|-------------|-------------|
| PEO1 | 3 | 3 | 3 | 3 |
| PEO2 | 3 | 3 | 3 | 3 |
| PEO3 | 3 | 3 | 3 | 3 |
| PEO4 | 3 | 2 | 2 | 2 |
| PEO5 | 3 | 3 | 3 | 3 |

Components Of Curriculum and Credit Distribution (M.Sc. Fashion Design)

| S. No | CATEGORY | DESCRIPTION | NO. OF COURSES | CREDITS | TOTAL | CREDIT WEIGHTAGE | CONTACT HOURS |
|--------------|---|--|-----------------------|----------------|--------------|-------------------------|----------------------|
| 1 | CORE COURSES | Core Theory | 7 | 24 | 38 | 51% | 360 |
| | | Core Lab | 7 | 14 | | | 210 |
| 2 | ELECTIVE COURSES | Department Core Electives/ Skill enhancement electives | 3 | 9 | 9 | 12% | 135 |
| 3 | OPEN ELECTIVES | Open Elective theory | 1 | 3 | 3 | 4% | 45 |
| | | Open Elective Lab | | | | | |
| 4 | INTERDISCIPLINARY/ ALLIED COURSES | Theory | 1 | 4 | 4 | 5% | 60 |
| | | Lab | | | | | |
| 5 | HUMANITIES & SOCIAL SCIENCES, LIFE SKILLS & SOFT SKILLS | Language 1 & 2 | | | 0 | 0 | |
| | | English 1 & 2 | | | | | |
| | | Soft Skills | | | | | |
| | | Life Skill | 1 | 0 | | | 15 |
| | | Foreign Language | | | | | |
| | | Environmental Studies | | | | | |
| | | Management Papers | | | | | |
| | | Entrepreneurship Development | | | | | |
| 6 | PROJECTS/INTERNSHIP/CORE SKILL | Project | 2 | 11 | 13 | 17% | 165 |
| | | Core Skills(ETL) | | | | | |
| | | Internship / NSS /NCC | 1 | 2 | | | 30 |
| 7 | RESEARCH COMPONENT | | | | | | |
| 8 | ANY OTHER | Research Methodology | 1 | 3 | 8 | 11% | 45 |
| | | Intellectual Property Rights | 1 | 3 | | | 45 |
| | | Research Publication | 1 | 2 | | | 30 |
| TOTAL | | | 26 | 75 | 75 | 100% | 1140 |

Table 2:

List of New courses / value added courses / life skills / Electives / interdisciplinary /courses focusing on employability/entrepreneurship/skill development. (M.Sc. Fashion Design)

| S.No. | New courses (Subjects) | Value added courses | Life skill | Electives | Inter Disciplinary | Focus on employability/ Entrepreneurship /Skill development. |
|-------|--|---------------------|------------|-----------|--------------------|--|
| 1 | Research Methodology | ✓ | | | | |
| 2 | Fashion Luxury Brand Management | ✓ | | | | |
| 3 | Audit Course: English for Research Paper writing | | ✓ | | | |
| 4 | Intellectual Property Rights and Patterns | ✓ | | | | |
| 5 | Summer Internship | ✓ | | | | |
| 6 | Surface Embellishment | ✓ | | | | |
| 7 | Textile Dyeing and Finishing | ✓ | | | | |
| 8 | Fashion Styling | ✓ | | | | |
| 9 | Digital CAD – Pattern Making and Grading | ✓ | | | | |
| 10 | Open Elective – SWAYAM / NPTEL | ✓ | | | | |
| 11 | Research Publication (Internal Evaluation) | ✓ | | | | |
| 12 | Textile Management | | | ✓ | | |
| 13 | Fashion Forecasting | | | ✓ | | |
| 14 | Traditional Textiles of India | | | ✓ | | |



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Faculties of Humanities and Science

Department of Fashion Design

M.Sc. Fashion Design 2025-2026

Credit Distribution

| Semester | Credits |
|-----------------|----------------|
| I | 21 |
| II | 22 |
| III | 21 |
| IV | 11 |
| TOTAL | 75 |

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Department of Fashion Design

I Semester

| S. No. | Code | Course | L | T/S. Lr | P/R | C | Ty/Lb/ ETP/IE |
|------------------|-----------|---|---|------------|-----|---|------------------|
| Theory | | | | | | | |
| 1 | HMCS25001 | Office Automation and AI Tools | 3 | 0 | 2 | 4 | ETP |
| 2 | HMFD25001 | Fiber to Fabric | 3 | 1 | 0 | 4 | Ty |
| 3 | HMFD25002 | Fashion Luxury Brand Management | 3 | 0 | 0 | 3 | Ty |
| 4 | HMFD25EXX | Programme Elective 1 | 3 | 0 | 0 | 3 | Ty |
| 5 | HMCC22001 | Research Methodology | 3 | 0 | 0 | 3 | Ty |
| Practical | | | | | | | |
| 6 | HMFD25L01 | Fashion Illustration and Design Lab | 0 | 0 | 4 | 2 | Lb |
| 7 | HMFD25L02 | Pattern Making and Garment Construction Lab | 0 | 0 | 4 | 2 | Lb |
| 8 | HMAC25I01 | Audit Course | 2 | 0 | 0 | 0 | IE |

Credits Subtotal: 21

II Semester

| S. No. | Code | Course | L | T/S .Lr | P/R | C | Ty/Lb /ETP/ IE |
|------------------|-----------|--|---|------------|-----|---|----------------------|
| Theory | | | | | | | |
| 1 | HMFD25003 | Functional Textiles | 3 | 1 | 0 | 4 | Ty |
| 2 | HMFD25004 | Textile Testing | 2 | 0 | 2 | 3 | ETP |
| 3 | HMFD25005 | Evolution of Global Textile | 3 | 0 | 0 | 3 | Ty |
| 4 | HMFD25EXX | Programme Elective II | 3 | 0 | 0 | 3 | Ty |
| 5 | HMCC22002 | Intellectual Property Rights and Patents | 3 | 0 | 0 | 3 | Ty |
| Practical | | | | | | | |
| 6 | HMFD25L03 | Draping Techniques Lab | 0 | 0 | 4 | 2 | Lb |
| 7 | HMFD25L04 | Advanced Pattern Making and Garment Construction Lab | 0 | 0 | 4 | 2 | Lb |
| 8 | HMFD25I01 | Summer Internship | 0 | 0 | 4 | 2 | IE |

Credits Subtotal: 22

C: Credits L: Lecture T: Tutorial S.Lr: Supervised Learning P: Problem / Practical R: Research
Ty/Lb/ETP/IE: Theory/Lab/Embedded Theory and Practice/ Internal Evaluation

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III Semester

| S. No. | Code | Course | L | T/S .Lr | P/ R | C | Ty/Lb /ETP/ IE |
|------------------|-----------|---|---|------------|---------|---|----------------------|
| Theory | | | | | | | |
| 1 | HMFD25006 | Apparel Quality Control and Standards | 4 | 0 | 0 | 4 | Ty |
| 2 | HMFD25007 | Textile Dyeing and Finishing | 3 | 0 | 0 | 3 | Ty |
| 3 | HMFD25EXX | Programme Elective III | 3 | 0 | 0 | 3 | Ty |
| 4 | HMOL22IE1 | Open Elective -Swayam/NPTEL/Any MOOC | 3 | 0 | 0 | 3 | IE |
| Practical | | | | | | | |
| 5 | HMFD25L05 | Visual Merchandising and Display Lab | 0 | 0 | 4 | 2 | Lb |
| 6 | HMFD25L06 | Digital CAD - Pattern Making and Grading Lab | 0 | 0 | 4 | 2 | Lb |
| 7 | HMFD25L07 | Surface Embellishment Lab | 0 | 0 | 4 | 2 | Lb |
| 8 | HMFD25L08 | Project Phase I | 0 | 0 | 4 | 2 | Lb |

Credits Subtotal: 21

IV Semester

| S.No. | Code | Course | L | T/S .Lr | P/ R | C | Ty/Lb /ETP/ IE |
|-------|-----------|--|---|------------|---------|---|----------------------|
| 1. | HMFD25L09 | Project Phase II | 0 | 0 | 9/9 | 9 | Lb |
| 2 | HMFD25I02 | Research Publication (Internal Evaluation) | 0 | 0 | 4 | 2 | IE |

Credits Subtotal: 11

Credit Summary

Semester 1: 21

Semester 2: 22

Semester 3: 21

Semester 4: 11

Total Credits: 75

C: Credits L: Lecture T: Tutorial S.Lr: Supervised Learning P: Problem / Practical R: Research
Ty/Lb/ETP/IE: Theory/Lab/Embedded Theory and Practice/ Internal Evaluation

LIST OF PROGRAMME ELECTIVES

| Programme Elective – I Theory | | | | | |
|--------------------------------------|------------------------|----------|---------------|------------|----------|
| Sub. Code | Subject Name | L | T/S.Lr | P/R | C |
| HMFD25E01 | Textile Wet Processing | 3 | 0 | 0 | 3 |
| HMFD25E02 | Home Textiles | 3 | 0 | 0 | 3 |
| HMFD25E03 | Textile Management | 3 | 0 | 0 | 3 |

| Programme Elective - II Theory | | | | | |
|---------------------------------------|----------------------------------|----------|---------------|----------|----------|
| Sub. Code | Subject Name | L | T/S.Lr | P | C |
| HMFD25E04 | Fashion Forecasting | 3 | 0 | 0 | 3 |
| HMFD25E05 | Apparel and Visual Merchandising | 3 | 0 | 0 | 3 |
| HMFD25E06 | Textile Finishes | 3 | 0 | 0 | 3 |

| Programme Elective - III Theory | | | | | |
|--|----------------------------------|----------|---------------|----------|----------|
| Sub. Code | Subject Name | L | T/S.Lr | P | C |
| HMFD25E07 | Sustainable Fashion and Textiles | 3 | 0 | 0 | 3 |
| HMFD25E08 | Traditional Textiles of India | 3 | 0 | 0 | 3 |
| HMFD25E09 | Textile and Fashion Business | 3 | 0 | 0 | 3 |

C: Credits L: Lecture T: Tutorial S.Lr: Supervised Learning P: Problem / Practical R: Research
 Ty/Lb/ETP/IE: Theory/Lab/Embedded Theory and Practice/ Internal Evaluation

LIST OF AUDIT COURSES

| AUDIT COURSE | | | | | | | |
|---------------------|-----------------|---|---------------------|----------|--------------|------------|----------|
| S.No | Sub.Code | Title of the Subject | Ty/Lb/ETL/IE | L | T/SLR | P/R | C |
| 1 | HMAC22I01 | English for Research paper Writing | Ty | 2 | 0/0 | 0/0 | 0 |
| 2 | HMAC22I02 | Disaster Management | Ty | 2 | 0/0 | 0/0 | 0 |
| 3 | HMAC22I03 | Sanskrit for Technical Knowledge | Ty | 2 | 0/0 | 0/0 | 0 |
| 4 | HMAC22I04 | Value Education | Ty | 2 | 0/0 | 0/0 | 0 |
| 5 | HMAC22I05 | Constitution of India | Ty | 2 | 0/0 | 0/0 | 0 |
| 6 | HMAC22I06 | Pedagogy Studies | Ty | 2 | 0/0 | 0/0 | 0 |
| 7 | HMAC22I07 | Stress Management by Yoga | Ty | 2 | 0/0 | 0/0 | 0 |
| 8 | HMAC22I08 | Personality Development through Life Enlightenment Skills | Ty | 2 | 0/0 | 0/0 | 0 |
| 9 | HMAC22I09 | Life skill | Ty | 2 | 0/0 | 0/0 | 0 |

SEMESTER - I

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Department of Fashion Design

| | | | | | | | | | | |
|---|--|----------------------|--|---------------------|-------------------------|--|---------------------------|---------------------------------------|--------------------|--------------------------|
| Subject Code: HMCS25001 | Subject Name: OFFICE AUTOMATION AND AI TOOLS | | | | | L | T/S.L r | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Basic Knowledge of Computers | | | | | 3 | 0/0 | 2/0 | 4 | ETP |
| L: Lecture T: Tutorial S.Lr: Supervised Learning P: Project R: Research C: Credits Ty/L/ETL: Theory / Lab / Embedded Theory and Lab | | | | | | | | | | |
| OBJECTIVES | | | | | | | | | | |
| <ul style="list-style-type: none"> • Introduce students to office automation tools for documentation, analysis, and presentations. • Provide practical exposure to spreadsheets, presentations and digital communication tools. • Familiarize students with artificial intelligence applications relevant to fashion design. • Enable integration of office automation with AI tools for professional workflows. • Enhance digital literacy, creativity and efficiency in fashion design projects. | | | | | | | | | | |
| COURSE OUTCOMES (COs): Students completing this course were able to | | | | | | | | | | |
| CO1 | Create professional documents and reports using office automation tools. | | | | | | | | | |
| CO2 | Manage and analyze data using spreadsheets and databases for fashion-related applications. | | | | | | | | | |
| CO3 | Develop creative presentations and use digital communication tools effectively. | | | | | | | | | |
| CO4 | Apply AI tools for fashion design, trend forecasting and visualization. | | | | | | | | | |
| CO5 | Integrate automation, AI for collaborative and efficient project workflows. | | | | | | | | | |
| Mapping of Course Outcome with Program Outcome (POs) | | | | | | | | | | |
| Cos/Pos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | |
| CO1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | |
| CO2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | |
| CO3 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 1 | 3 | |
| CO4 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | |
| CO5 | 3 | 3 | 2 | 3 | 1 | 3 | 3 | 2 | 3 | |
| COs /PSOs | PSO1 | | | PSO2 | | | PSO3 | | | |
| CO1 | 3 | | | 2 | | | 3 | | | |
| CO2 | 3 | | | 3 | | | 2 | | | |
| CO3 | 2 | | | 3 | | | 2 | | | |
| CO4 | 3 | | | 2 | | | 2 | | | |
| CO5 | 2 | | | 3 | | | 3 | | | |
| 3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low | | | | | | | | | | |
| Category | Basic Sciences | Engg. Science | Humanities & social Science | Program Core | Program Elective | Open Elective Interdisciplinary | Practical/ Project | Internships / Technical Skills | Soft Skills | |
| | | | | | | √ | | | | |

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| | | | | | | |
|-----------------------------------|---|----------|---------------|------------|----------|-----------------------|
| Subject Code: HMCS25001 | Subject Name: OFFICE AUTOMATION AND AI TOOLS | L | T/S.Lr | P/R | C | Ty/Lb /ETP/ IE |
| | Prerequisite: Basic Knowledge of Computers | 3 | 0/0 | 2/0 | 4 | ETP |

UNIT I: OFFICE AUTOMATION BASICS

12 hrs

Introduction to Office Automation – scope and applications in Fashion Design – Basics of operating systems, file management and cloud storage - Word Processing (MS Word / Google Docs): formatting, templates, styles, mail merge, tables and report preparation - Professional documentation for fashion portfolios, reports and communication.

UNIT II: DATA & PRESENTATION MANAGEMENT

12 hrs

Spreadsheets (MS Excel / Google Sheets): formulas, functions, charts, pivot tables, data validation and visualization - Database basics – MS Access / Google Sheets integration - Applications in fashion: cost sheets, sizing charts, inventory and sales data analysis - Presentation tools (MS PowerPoint / Google Slides): design principles, layouts, transitions and multimedia integration - Professional communication and collaboration tools – Outlook, Gmail, Google Meet/Teams and Calendar.

UNIT III: ARTIFICIAL INTELLIGENCE (AI) IN FASHION

12 hrs

Introduction to AI: concepts, types and industry applications - AI in fashion: trend forecasting, pattern generation, styling and virtual try-on-Generative AI tools: ChatGPT, MidJourney, DALL-E, Stable Diffusion, Canva AI-AI-driven retail & e-commerce: chatbots, recommendation engines and personalization

UNIT IV: AI-ENABLED PRODUCTIVITY & AUTOMATION

12 hrs

Workflow automation: MS Power Automate, Zapier, Google App Scripts - Cloud collaboration tools: Google Drive, OneDrive, Notion-AI-assisted productivity: automated documentation, project management and digital portfolios-Case studies of AI-driven automation in fashion businesses and design processes.

UNIT V: EMERGING AI TECHNOLOGIES IN DESIGN

12 hrs

Exploration of upcoming AI trends: generative design, 3D modelling with AI, digital twins and smart textiles - Use of AI in sustainable fashion and production optimization - AI ethics and responsible usage in creative industries - Hands-on practice with AI-integrated design tools (Adobe Firefly, Runway ML and Fotor AI).

TOTAL: 60 HRS

LAB EXPERIMENTS:

1. Create a fashion project report with cover page, table of contents, headers/footers and references using MS Word/Google Docs.
2. Perform a mail merge to generate invitation letters for a fashion show/event.
3. Create an Excel sheet for garment measurement data with formulas and conditional formatting.
4. Prepare a cost sheet for a fashion collection and generate a pie/bar chart of cost distribution.
5. Develop a PowerPoint/Google Slides presentation showcasing a seasonal fashion collection with animations and transitions
6. Schedule a virtual meeting using Teams/Google Meet and prepare a professional email invitation with attachments.

7. Use an AI text tool (ChatGPT/Notion AI) to generate fashion blog content or design descriptions.
8. Automate a workflow using MS Power Automate/Zapier (e.g., auto-save email attachments to cloud storage).

REFERENCE BOOKS

1. Joyce Cox & Joan Lambert – Microsoft Office Step by Step – Microsoft Press.
2. Curtis Frye – Microsoft Excel Step by Step – Microsoft Press.
3. Agrawal, A., Gans, J., & Goldfarb, A. – Prediction Machines: The Simple Economics of Artificial Intelligence – Harvard Business Review Press.
4. Prajapat, R.K. – Fundamentals of Computer Applications (For basics of office automation and IT applications).
5. Russell, S. & Norvig, P. – Artificial Intelligence: A Modern Approach, Pearson.
6. McDowell, L. – AI for Designers, Laurence King Publishing.
7. Online tutorials and official documentation for Google Workspace, Canva AI, and Microsoft 365.

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| | | | | | | |
|-----------------------------------|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25001 | Subject Name: FIBER TO FABRIC | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Basic Knowledge of Textile Science | 3 | 1/0 | 0 | 4 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To acquire knowledge about the textile fibers and advanced fibers.
- Demonstrate the concept of yarn making process involved in the production of fibers and yarns.
- Analyse the weaving, weaving mechanism and types of weaving.
- To comprehend the process of knitting and fabrics.
- To understand the manufacturing process of Non-woven fabrics.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|---|
| CO1 | Understand the structure and properties of fibres. |
| CO2 | Demonstrate the traditional and modern spinning techniques. |
| CO3 | Interpret the weaving principles and mechanisms. |
| CO4 | Know the other fabric formation technique knitting and its processes. |
| CO5 | Select appropriate fibres for Non-Woven fabric formation. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 1 | 1 | 1 | 1 | | 2 | 2 |
| CO2 | 3 | 3 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| CO3 | 3 | 3 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| CO4 | 3 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 |
| CO5 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 3 | 3 |

| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | |
|------------|-------|-------|-------|-------|--|--|
| CO1 | 3 | 2 | 2 | 1 | | |
| CO2 | 3 | 2 | 3 | 1 | | |
| CO3 | 3 | 2 | 3 | 1 | | |
| CO4 | 3 | 2 | 3 | 1 | | |
| CO5 | 3 | 2 | 3 | 1 | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|
| | < | | | | | | | | |

| | | | | | | |
|-----------------------------------|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25001 | Subject Name: FIBER TO FABRIC | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Basic Knowledge of Textile Science | 3 | 1/0 | 0 | 4 | Ty |

UNIT – I: INTRODUCTION TO FIBRE SCIENCE

12 hrs

Classification of textile fibers according to their nature and origin, Properties of textile fibers. Natural fibers: vegetable fibers, animal fibers and mineral fibers. Man-made fibers. Blended fibers. High performance fibers - glass fibers, carbon fibers, ceramic fibers, chitosan fibers, alginate fibers, bicomponent fibers, super absorbent fibers, optical fibers, Nano fibers and hollow fibers.

UNIT – II: FABRIC TO YARN CONVERSION

12 hrs

Spinning – process – cleaning and opening, blow room, carding, combing, draw frame, roving, spinning and winding. Types of spinning. Definition of yarn, types of yarn, yarn twist, yarn count (definition, unit of yarn count). Classification of yarns, comparison between carded & combed yarns, woolen & worsted yarns, filament & spun yarns. Yarns and sewing threads, yarn numbering system, and yarn twist. Sewing threads characteristics.

UNIT – III: YARN TO FABRIC CONVERSION

12 hrs

Weaving - definition and terminologies, yarn selection and preparation for weaving, fundamentals of weaving mechanism. Types of looms and their functions. Elements of fabric body vs selvedge, face vs back, warp and weft, width and weight, expression of weight, weave, threads/unit area (reed x pick) and cover, yarn crimp (woven fabric).

UNIT- IV: KNITTING

12 hrs

Knitting - definition and terminologies. Comparison between knitted and woven fabrics. Warp knitting and weft knitting. Knitting needles. Types of knitting machines – flat knitting and circular knitting. Properties of knitted fabrics and end uses.

UNIT- V: NON-WOVEN

12 hrs

Non-Woven fabric - definitions, staple fiber web formation, bonding technologies and types, integrated technologies. Other fabric construction process - braided fabric, nets, laces, film fabric and tufted fabric.

TOTAL: 60 HRS

REFERENCE BOOKS

1. Deepali Rastogi and Sheetal Chopra, (2017), Textile Science, Orient Black Swan, Private Limited, Hyderabad.
2. Seema Sekhri, (2011), Textbook of Fabric Science: Fundamentals to Finishing, PHI Learning Pvt Limited, New Delhi.
3. Mishra S.P, (2000), A Text Book of Fibre Science and Technology, New Age International (P) Limited, Publishers, New Delhi.
4. Bernard P. Corbman, (1983), Textiles: Fibre to Fabric, McGraw-Hill, New York.
5. Anthony R.Bunsell, (2018), Handbook of Properties of Textile and Technical Fibres, Wood head Publishing Pvt Ltd, UK.
6. Hayavadana.J, (2016), Woven Fabric Structure Design and Product Planning, Wood head Publishing India Pvt Ltd, India.

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|--|--|-------------------------|--------------------------------------|----------------------|---------------------------------|----------------------------------|------------------------|--------------------------------------|---------------|---------------------|
| Subject Code: HMFD25002 | Subject Name: FASHION LUXURY BRAND MANAGEMENT | | | | | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | | | | | 3 | 0 | 0 | 3 | Ty |
| L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits T/L/ETL : Theory / Lab / Embedded Theory and Lab | | | | | | | | | | |
| OBJECTIVES | | | | | | | | | | |
| <ul style="list-style-type: none"> • To understand the fundamentals of branding and brand management. • To explore the concept, structure and dynamics of the luxury fashion industry. • To learn strategies of merchandising, communication and retail in the luxury sector. • To analyze consumer behavior and marketing practices in luxury fashion. • To study retail operations and the evolving role of digital platforms in luxury brand management. | | | | | | | | | | |
| COURSE OUTCOMES (COs) | | | | | | | | | | |
| Students completing this course were able to | | | | | | | | | | |
| CO1 | Explain the principles of brand creation, equity and strategic brand management. | | | | | | | | | |
| CO2 | Identify and classify luxury brands and markets in the fashion industry. | | | | | | | | | |
| CO3 | Apply merchandising and pricing strategies specific to luxury products. | | | | | | | | | |
| CO4 | Evaluate the impact of digital communication on luxury branding and retail. | | | | | | | | | |
| CO5 | Manage retail operations and customer experiences for luxury fashion brands. | | | | | | | | | |
| Mapping of Course Outcome with Program Outcome (POs) | | | | | | | | | | |
| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | |
| CO1 | 3 | 3 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | |
| CO2 | 3 | 3 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | |
| CO3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | |
| CO4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | |
| CO5 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | |
| COs /PSOs | PSO-1 | | PSO-2 | | PSO-3 | | PSO-4 | | | |
| CO1 | 3 | | 2 | | 2 | | 3 | | | |
| CO2 | 3 | | 2 | | 1 | | 3 | | | |
| CO3 | 2 | | 2 | | 2 | | 3 | | | |
| CO4 | 2 | | 3 | | 3 | | 3 | | | |
| CO5 | 2 | | 2 | | 2 | | 3 | | | |
| 3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low | | | | | | | | | | |
| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others | |
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|-----------------------------------|--|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25002 | Subject Name: FASHION LUXURY BRAND MANAGEMENT | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

UNIT I: BRANDS AND BRAND MANAGEMENT

9 hrs

Defining a brand, brand elements, brands versus products, branding commodities, business-to-business branding, high tech branding, place branding, market leadership, branding challenges and opportunities, marketing brands in a recession, brand equity concepts, strategic brand management process and history of branding.

UNIT II: LUXURY FASHION MANAGEMENT

9 hrs

Defining Luxury goods, new and old luxury, The Luxury brand market and Categories of luxury. The Luxury Fashion market: Competition, threats and consumers on the luxury fashion. The decision making process and Luxury fashion managements. Luxury fashion marketing: Product, Price, and Promotion.

UNIT III: FASHION LUXURY INDUSTRY

9 hrs

The concept of luxury, luxury values, true luxury and intermediate luxury, five sources of legitimacy. Major luxury sectors: ready-to-wear, perfumes, cosmetics, leather goods, jewelry and watches. The power of the luxury brand, the value of a brand, the inter brand methodology, luxury brands in the total brand universe. The characteristics of the brand: the brand as a contract, time, society and its signs.

UNIT IV: CREATION AND MERCHANDISING

9 hrs

Luxury products business process, merchandising: the merchandiser's responsibilities, the collection plan, the crucial link to strategies, pricing, the collections calendar and creation. Mass market versus luxury brands, brand aesthetics, art and brands. Communication in digital times: a brief history, overall impact of digital technologies, impact on consumers, luxury brands and e-commerce, Communication: the communication chain and communication strategy specificities of digital communication.

UNIT V: LUXURY RETAIL MANAGEMENT

9 hrs

The present retail situation for luxury brands, basic retail management concepts, store location, types of stores, classification by store size, ownership, economic analysis of store location, different leasing systems, budget, planning and control. Staffing, training and evaluation, the store as a communication tool and its power, internal and external display, the challenge of the seamless online and offline process, the future of luxury retailing.

TOTAL: 45 HRS

REFERENCE BOOKS

1. Tilde Heding, Charlotte F. Knudtzen and Mogens Bjerre, (2009), Brand Management, Research, theory and practice, Routledge (Taylor & Francis Group).
2. Jean-Noel Kapferer, (2008), The New Strategic Brand Management, 4th Edition, Kogan Page, London, UK.
3. Tungate, Mark, (1967), Fashion brands: branding style from Armani to Zara, London, and Philadelphia: Kogan Page.
4. Michel Chevalier, (2021), Luxury Brand Management in Digital and Sustainable Times, Fourth edition.
5. Marchavan Dijk, (2009), Luxury Fashion Management, Brand and Marketing Management in the ever-changing Luxury Fashion Industry.

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|-----------------------------------|--|----------|--------------------|------------|----------|--------------------------|
| Subject Code: HMCC22001 | Subject Name : RESEARCH METHODOLOGY | L | T/S.L r | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite : None | 3 | 0 | 0 | 3 | Ty |

L : Lecture T : Tutorial S.Lr : Supervised Learning P : Project R : Research C: Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES :

- Design and formulation of research problem.
- Analyze research related information and statistical methods in research.
- Carry out research problem individually in a perfect scientific method.
- Understand the filing patent applications processes, Patent search, and various tools of IPR, Copyright, and Trademark.

COURSE OUTCOMES (Cos) :

Students completing the course were able to

| | |
|------------|---|
| CO1 | Design and Formulation of research problem. |
| CO2 | Analyze research related information and statistical methods in research. |
| CO3 | Carry out research problem individually in a perfect scientific method. |
| CO4 | Understand Patent Filing application Process. |
| CO5 | Patent Search and various tools used. |

Mapping of Course Outcomes with Program Outcomes (POs)

| COs/ POs | PO 1 | PO2 | PO3 | PO 4 | PO5 | PO6 | PO7 | PO 8 | PO9 | PO10 | PO11 | PO12 |
|-------------|------|--------------|------------------|---------------|--------------------------|----------------------------|-----------------|-------------------------------|--------|------|------|------|
| CO1 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 2 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| CO3 | 3 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 1 |
| CO4 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 |
| Category | H&S | Program core | Program Elective | Open elective | Skill enhancing elective | Interdisciplinary / Allied | Skill component | Practical Project/ Internship | others | | | |
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|-----------------------------------|--|----------|--------------------|------------|----------|--------------------------|
| Subject Code: HMCC22001 | Subject Name : RESEARCH METHODOLOGY | L | T/S.L r | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite : None | 3 | 0 | 0 | 3 | Ty |

**L : Lecture T : Tutorial S.Lr : Supervised Learning P : Project R : Research
C: Credits T/L/ETL : Theory / Lab / Embedded Theory and Lab**

UNIT - I:

9 hrs

Introduction to research, Definitions and characteristics of research, Types of Research, Research Process, Problem definition, Objectives of Research, Research Questions, Research design, Quantitative vs. Qualitative Approach, Building and Validating Theoretical Models, Exploratory vs. Confirmatory Research, Experimental vs. Theoretical Research, Importance of reasoning in research.

UNIT - II:

9 hrs

Problem Formulation, Understanding Modeling & Simulation, Literature Review, Referencing, Information Sources, Information Retrieval, Indexing and abstracting services, Citation indexes, Development of Hypothesis, Measurement Systems Analysis, Error Propagation, Validity of experiments, Statistical Design of Experiments, Data/Variable Types & Classification, Data collection, Numerical and Graphical Data Analysis: Sampling, Observation, Interpretation of Results.

UNIT - III

9 hrs

Statistics: Probability & Sampling distribution, Estimation, Measures of central Tendency, Arithmetic mean, Median, Mode, Standard deviation, Co efficient of variation (Discrete serious and continuous serious), Hypothesis testing & application, Correlation & regression analysis, Orthogonal array, ANOVA, Standard error, Concept of point and interval estimation, Level of significance, Degree of freedom, Analysis of variance, One way and two way classified data, F' test.

UNIT - IV:

9 hrs

Preparation of Dissertation and Research Papers, Tables and illustrations, Guidelines for writing the abstract, introduction, methodology, results and discussion, conclusion sections of a manuscript. References, Citation and listing system of documents.

UNIT - V:

9 hrs

Intellectual property rights (IPR) patents copyrights Trademarks Industrial design geographical indication. Ethics of Research Scientific Misconduct Forms of Scientific Misconduct. Plagiarism, Unscientific practices in thesis work, Ethics in science.

TOTAL: 45 HRS

REFERENCES

1. K. S. Bordens, and B. B. Abbott , —Research Design and Methods – A Process Approach, 8th Edition, McGraw Hill, 2011.
2. C. R. Kothari, —Research Methodology – Methods and Techniques, 2nd Edition, New Age International Publishers.

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|-----------------------------------|--|---|--------|-----|---|------------------|
| Subject Code: HMFD25L01 | Subject Name: FASHION ILLUSTRATION AND DESIGN LAB | L | T/S.Lr | P/R | C | Ty/Lb/E TP/IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To understand how to draw fashion croquis using various stylized proportions.
- To develop skills in fleshing out block and stick figures into proportionate illustrations.
- To explore fabric rendering of various textures that accurately represent the material qualities in fashion illustrations.
- To enhance students ability to design kids wear, women's wear and men's wear.
- To develop the ability to create detailed technical packages that accurately communicates garment specifications for production.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|---|
| CO1 | Understand and apply the different body proportions used in fashion illustration. |
| CO2 | Transform geometric fashion figures into fully fleshed and anatomically stylized illustrations. |
| CO3 | Render a variety of fabric textures and showcasing their unique qualities through different mediums. |
| CO4 | Apply suitable rendering techniques to represent kids wear, women's wear and men's wear. |
| CO5 | Ability to prepare comprehensive technical packages that effectively communicate garment specifications and construction details for manufacturing. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| CO2 | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 2 |
| CO4 | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 2 |
| CO5 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |

| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 |
|------------|-------|-------|-------|-------|
| CO1 | 3 | 2 | 3 | 2 |
| CO2 | 3 | 3 | 3 | 2 |
| CO3 | 3 | 3 | 3 | 2 |
| CO4 | 3 | 3 | 3 | 2 |
| CO5 | 3 | 2 | 3 | 3 |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/ Allied | Skill Component | Practical /Project/ internship | Others |
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|-----------------------------------|--|----------|---------------|------------|----------|-------------------------------|
| Subject Code: HMFD25L01 | Subject Name: FASHION ILLUSTRATION AND DESIGN LAB | L | T/S.Lr | P/R | C | Ty/Lb /ETP/ IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |

1. FASHION FIGURES AND POSES

6 hrs

Create Stick Figures for Various Dynamic Poses, Construct Geometric Shapes for Fashion Sketching Foundations, and Understanding Proportions of 8-Head, 10-Head, and 12-Head Croquis (Front and Back).

2. FLESHING THE FASHION FIGURE WITH FACIAL AND BODY FEATURE

6 hrs

Fleshing Out Block Figures to Develop Realistic Human Forms, Detailed Illustration of Facial Features (Eyes, Nose, Ears and Lips), Hands, Arms, Feet, Legs and Hairstyles. Accessories: Jewelry, Hats, Bags, Shoes, Belts and Scarves.

3. FABRIC SWATCHES RENDERING

6 hrs

Illustrate Textural effects for various Fabric swatches using different mediums and techniques - Net, Knit, Denim, Velvet, Lace, Fur, Brocade, Leather, Silk and Corduroy.

4. KIDS, WOMENS AND MENS WEAR ILLUSTRATION

6 hrs

Create detailed fashion illustrations for Kids wear, Women's wear and Men's wear - Develop Mood board, Color board, Swatch board, Inspiration board and Accessory board.

5. GARMENT SPECIFICATION AND DOCUMENTATION

6 hrs

Preparation of detailed garment specification and documentation - Color way sheets, Construction details, Artwork sheets, Branding sheets, Spec sheets (Measurements) and Bill of Materials (BOM).

TOTAL: 30 HRS

REFERENCE BOOKS

1. Martin, (2011), Great big book of fashion illustration. London: Batsford.
2. Kiper, Anna, (2011) Fashion illustration inspiration and Technique, Cincinnati OH: David & Charles.
3. Lafuente Mollon, Maite / Navarro Arbe, Javier / Navarro Royo, Juanjo, (2009), Modern fashion illustration, Loft publications.
4. Maite Lafuente, (2005), Essential fashion illustration: Details, Rockport publisher.
5. Bhargav, Ritu (2005), Fashion illustration & Rendering, kuldeep Jain.

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|-----------------------------------|--|----------|----------------|------------|----------|---------------------|
| Subject Code: HMFD25L02 | Subject Name: PATTERN MAKING AND GARMENT CONSTRUCTION LAB | L | T/S. Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Basic Knowledge In Pattern Making And Garment Construction | 0 | 0 | 4/0 | 2 | Lb |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits

T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- Provide knowledge and practical skills in various seam finishes and gathering techniques.
- Develop skills to design and modify various sleeve styles.
- Enable learners to identify and construct various collar styles.
- Develop skills in designing and constructing various skirt styles.
- Teach students how to draft basic and advanced patterns for children's garments.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|---|
| CO1 | Identify and execute various seam finishes, pleats, and gathering techniques. |
| CO2 | Modify the basic sleeve to create various sleeve styles. |
| CO3 | Develop and differentiate key collar styles such as Peter Pan, Mandarin, Shirt, Sailor, and Shawl. |
| CO4 | Modify the basic skirt block into fashionable skirt styles like wrap, pencil, mermaid, etc. |
| CO5 | Draft accurate patterns for bibs, knickers, rompers, and jables based on standard child measurements. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CO1 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| CO2 | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 |
| CO4 | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | PSO-5 | PSO-6 | PSO-7 | PSO-8 | PSO-9 |
| CO1 | 3 | 2 | 3 | 2 | | | | | |
| CO2 | 3 | 3 | 3 | 2 | | | | | |
| CO3 | 3 | 3 | 3 | 2 | | | | | |
| CO4 | 3 | 3 | 3 | 2 | | | | | |
| CO5 | 3 | 2 | 3 | 2 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25L02 | Subject Name: PATTERN MAKING AND GARMENT CONSTRUCTION LAB | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Basic Knowledge In Pattern Making And Garment Construction | 0 | 0 | 4/0 | 2 | Lb |

1. PATTERN MAKING

6 hrs

Pattern Making - Definition of Paper Pattern - Types of Paper Pattern - Measurement Chart. Preparation of Basic Bodice Front, Back and Sleeve. Seam Finishes - Pinked, Overlocked / Serger Finish, Zigzag Finish, Turned and Stitched Finish and Bound Seam Finish. Pleats - Knife Pleats, Box Pleats, Inverted Box Pleats, Kick Pleats, Accordion Pleats and Pinch Pleats. Gathers – Hand Gathers, Machine Gathers, Ruching, Drawstring, Elastic Gathers and Shirring.

2. SLEEVES

6 hrs

Methods of Developing Sleeve Patterns using Drafting and Make Samples to illustrate their application. Sleeve Styles – Set-In Sleeve, Puff Sleeve, Raglan Sleeve, Kimono Sleeve, Bishop Sleeve, Bell Sleeve and Leg of Mutton Sleeve.

3. COLLARS

6 hrs

Methods of Developing Collar Patterns using Drafting and Make Samples to illustrate their application. Collars- Peter Pan Collar, Mandrin Collar, Shirt Collar, Shawl Collar.

4. SKIRT

6 hrs

Methods of Developing Skirt Patterns using Drafting and Make Samples to illustrate their application. Skirts - Wrap Skirt, High-Low Skirt (Asymmetrical Hem), Pencil Skirt, Layered or Tiered Skirt, Mermaid or Fishtail Skirt and Godet Skirt.

5. KIDS GARMENT

6 hrs

Methods of Developing Kids Patterns using Drafting and Make Samples to illustrate their application. Kids Pattern – Bib, Knicker, Baba Suit (Romper) and Jabla.

TOTAL: 30 HRS

REFERENCE BOOKS

1. Helen Joseph Armstrong, (2013), Pattern Making for Fashion Design, Fifth edition, Pearson Education India.
2. W.H. Hulme, (2011), The Theory of Garment Pattern Making, Read Books, USA.
3. Isabel Sanchez Hernandez and Lucia Mors, (2015), Practical Pattern Making: A step by step guide, Firefly Books Ltd, U.K.
4. Marie Brooks, (1939), The Language of Fashion Dictionary and Digest of Fabrics, Sewing and Dress, Funk and Wagnalls, New York.
5. Sylvia Rosen, (2004), Patternmaking: A Comprehensive Reference for Fashion Design, Upper Saddle River, NJ: Prentice Hall.
6. Padmavathi. B, (2022), Techniques of Drafting and Pattern Making: Garments for Kids and Adolescents, Atlantic Publishers and Distributors (P) Ltd, India.

SEMESTER-II

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|-----------------------------------|--|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25003 | Subject Name: FUNCTIONAL TEXTILES | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 3 | 1/0 | 0 | 4 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To introduce students to functional aspects of textiles.
- To impart knowledge on manufacture and end use of agro and build tech.
- To acquaint the conventional and latest fibres used in technical textiles.
- To enable the various application of technical textiles.
- To understand the concepts of smart and intelligent textiles.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|---|
| CO1 | Discuss the fibres and fabrics used in various applications of technical textiles and the products with their uses. |
| CO2 | Recall the scope of technical textiles and its applications in various fields. |
| CO3 | Differentiate the fibres and fabrics that are suitable for heat, flame protection and survival textiles. |
| CO4 | Compare the Conventional and Non-conventional fibres used in technical textiles. |
| CO5 | Know the latest developments in technical textiles sector. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 |
| CO2 | 3 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 |
| CO4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 2 | 1 | | | | | |
| CO2 | 3 | 2 | 1 | 1 | | | | | |
| CO3 | 3 | 2 | 2 | 1 | | | | | |
| CO4 | 3 | 2 | 2 | 1 | | | | | |
| CO5 | 2 | 3 | 2 | 2 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25003 | Subject Name: FUNCTIONAL TEXTILES | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 3 | 1/0 | 0 | 4 | Ty |

UNIT – I: FUNCTIONAL TEXTILES

12 hrs

Introduction, definition, applications and scope of functional textiles. Developments of functional textiles. Functional fibers - introduction, high performance fibers and specialty fibers – classification and important applications. Functional yarns - introduction, staple and filament yarns.

UNIT - II: AGRO TEXTILES AND BUILD TECH

12 hrs

Agro textiles - introduction, fibers used, types, functions and properties, characteristics and applications in agro products and in its field. Build tech - introduction, fibers used, types, functions and properties, characteristics and applications in architecture and in building construction.

UNIT - III: GEO TEXTILES AND INDU TECH

12 hrs

Geo textiles - introduction, fibers used, types, functions and properties, characteristics and applications in its field. Indu tech – introduction, fibers used, types, functions and properties, characteristics and applications - theory of dust collection.

UNIT- IV: MOBIL TECH AND SMART AND MEDICAL TEXTILES

12 hrs

Mobil tech - introduction, fibers used, types, functions and properties, characteristics and applications of mobile tech, applications in all kinds of road transport vehicles, rail and air crafts. Medical textiles: introduction, biomaterials for medical textiles, implantable, non-implantable, extra corporal, healthcare and hygiene applications of textiles.

UNIT- V: SPORTS TEXTILES AND SMART AND INTELLIGENT TEXTILES

12 hrs

Sports textiles - introduction, fibers used, types, functions and properties, characteristics and applications of sports tech. Smart and intelligent textiles - classification - active smart, passive smart and very smart textiles and phase change materials, shape memory polymers, chromic and conductive materials and its applications in various fields.

TOTAL: 60 HRS

REFERENCE BOOKS

1. R. Horrocks and S. C. Anand, (2000), Hand book of Technical textiles Wood head publishing ltd, England.
2. Dr.S.Grace Annapoorani, (2017), Technical Textiles and its Application, LASER Park Publishing House, India.
3. Amar K. Mohanty, Manjusri, Lawrence T, (2005), Natural Fibers, Biopolymers and bio composites, Boca Raton, London.
4. R. Senthil Kumar, (2013), Textiles for Industrial Applications, CRC Press.
5. Abhijit Majumdar, Deepti Gupta, Sanjay Gupta, (2019), Functional Textiles and Clothing, 1st edition, Springer Varley, Singapore.
6. Dr.S.Grace Annapoorani, (2018), Agro Textiles and its Application, Wood head publishing ltd, India.
7. Shahid Ul-Islam, Butola BS, (2019), Advanced Functional Textiles and Polymers: Fabrication, Processing and Applications, 1st edition, Wiley-Scrivener.

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|-----------------------------------|--------------------------------------|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25004 | Subject Name: TEXTILE TESTING | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 2/0 | 3 | ETP |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- Gain knowledge on the fiber, yarn and physical tests.
- Gain knowledge on the procedures to be followed in various testing equipment.
- Know about the concepts and principles followed in testing various parameters.
- Analyze the properties of textile materials by testing.
- To know about the various textile testing equipment as well as their working principles.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|--|
| CO1 | Understand the importance of standard atmospheric conditions required for testing. |
| CO2 | Handle the equipment without any assistance in carrying out the testing of fibres, yarns and fabrics. |
| CO3 | Relate the principles of fabric testing procedures with the functional, performance, aesthetic and comfort properties of textiles. |
| CO4 | Execute the yarn testing methods for count, twist, strength and unevenness. |
| CO5 | Examine the determination of colour fastness of dyed materials. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 |
| CO2 | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 3 | 2 |
| CO3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 |
| CO4 | 3 | 3 | 3 | 2 | 1 | 2 | 1 | 3 | 2 |
| CO5 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 2 | 1 | | | | | |
| CO2 | 3 | 2 | 3 | 1 | | | | | |
| CO3 | 3 | 3 | 3 | 2 | | | | | |
| CO4 | 3 | 2 | 3 | 2 | | | | | |
| CO5 | 3 | 2 | 2 | 1 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|--------------------------------------|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25004 | Subject Name: TEXTILE TESTING | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 2/0 | 3 | ETP |

UNIT – I: INTRODUCTION TO TEXTILE TESTING

9 hrs

Introduction to testing – definition, objectives, importance and types of testing, International Quality parameters and standards like AATCC, ASTM, BIS etc. Humidity - absolute and relative (moisture content and regain), Standard atmospheric conditions, Moisture and Humidity – its importance and relationship to textiles, Determination of humidity – Wet and Dry bulb hygrometer and sling hygrometer, Measurement of moisture regain and content by Conditioning oven method.

UNIT -II: FIBER TESTING

9 hrs

Fiber testing - Cotton fiber length – determination of fiber length by Baer sorter method, Fineness – Air flow principle – determination of fiber fineness by Sheffield micronaire method, fiber maturity – Caustic soda swelling method, fiber strength – Determination of fiber strength by Pressely bundle strength tester and Stelometer method. Determination of trash and lint in cotton by Shirley trash analyzer method.

UNIT -III: YARN TESTING

9 hrs

Yarn testing - Yarn numbering system – conversion of count from one system to another, Instruments for count determination – Quadrant balance, Beesely balance. Yarn strength testing – Single yarn strength tester, Lea strength tester. Yarn twist - Direction of twist, twist testers – Tension type twist tester, Yarn evenness – Methods of measuring evenness using blackboard method, Uster evenness tester, determination of yarn hairiness and yarn crimp.

UNIT- IV: FABRIC TESTING

9 hrs

Fabric testing – fabric weight, cover factor and fabric thickness. Fabric strength – fabric tensile strength tester, tearing strength tester and hydraulic bursting strength tester. Fabric abrasion resistance - Martindale abrasion tester. Fabric pilling – ICI pill box tester. Fabric drape – Measurement of drape, fabric stiffness – Shirley stiffness tester. Fabric crease resistance – Crease recovery tester, Fabric permeability – Shirley air permeability tester.

UNIT- V: TESTS FOR COLOUR FASTNESS

9 hrs

Color fastness in textiles – Importance and factors affecting colour fastness, colour fastness to crocking - Dry and wet, Perspiration – Acid and alkaline, sunlight, laundering, pressing and dry - cleaning aspects. Grey scales and ratings.

TOTAL: 45 HRS

Lab Components

Fiber Testing

1. Burn Test.
2. Physical Appearance.
3. Chemical Tests

Fabric Testing

1. Fabric Weight.
2. Thread Count.
3. Shrinkage Test.
4. Thickness Measurement.
5. Abrasion Resistance.
6. Color Fastness.

REFERENCE BOOKS

1. Arindam, (2001), Textile Testing, SITRA Coimbatore.
2. Elliot B Grover and Hamby DS, (2011), Handbook of Textile Testing and Quality Control, Willey Eastern limited, New Delhi.
3. Saville BP, (2004), Physical Testing of Textiles, Wood head publishing, Cambridge.
4. Gopalakrishnan.R, A.P, (2002), Textile Testing, SSM Institute of Technology, Komarapalayam.
5. Newnes Butterworths, B.J.E, (1976), Principles of Textile Testing, London.

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|-----------------------------------|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25005 | Subject Name: EVOLUTION OF GLOBAL TEXTILE | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- Understand the origin and evolution of textiles and clothing.
- Study textiles of ancient civilizations and their cultural impact.
- Examine Medieval to Renaissance textile developments.
- Analyze industrialization, mechanization, and synthetic fibers.
- Explore contemporary textiles, sustainability, and India's global role.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|--|
| CO1 | Explain early textile production and natural fibers. |
| CO2 | Describe textiles of ancient civilizations. |
| CO3 | Analyze Medieval and Renaissance textile developments. |
| CO4 | Evaluate Industrial Revolution and modern textile production. |
| CO5 | Examine contemporary textiles, sustainability, and global trade. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 |
| CO2 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 |
| CO3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| CO4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 2 | 2 | | | | | |
| CO2 | 3 | 2 | 2 | 2 | | | | | |
| CO3 | 3 | 3 | 2 | 2 | | | | | |
| CO4 | 3 | 3 | 3 | 3 | | | | | |
| CO5 | 3 | 3 | 3 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25005 | Subject Name: EVOLUTION OF GLOBAL TEXTILE | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

UNIT – I: INTRODUCTION TO GLOBAL TEXTILE EVOLUTION

9 hrs

Origin of clothing and early textile production. Role of climate, geography and resources in textile evolution. Discovery of natural fibres – animal and plant-based. Early spinning, weaving, dyeing and felting techniques. Importance of textiles in early human societies and rituals. Prehistory – clothing, headwear, body decorations and footwear.

UNIT - II: TEXTILES OF ANCIENT CIVILIZATIONS

9 hrs

Sumerian and Babylonian textiles - wool kaunakes, draped garments and woven patterns. Egyptian textiles - flax cultivation, linen fabrics, dyeing, pleating and mummy cloths. Indus valley civilization - cotton production, spinning and weaving tools, trade with Mesopotamia. Chinese textiles - silk invention, sericulture, weaving and silk route trade. Greek and Roman textiles - wool, linen, garments, draping styles and dyeing with natural sources.

UNIT - III: MEDIEVAL TO RENAISSANCE PERIOD

9hrs

Development of silk route and expansion of textile trade. Influence of Byzantine, Islamic and Persian textiles on global designs. Growth of European textile centers – Italy, Spain and France. Traditional textiles of India: cotton, muslin, brocade, embroidery and block printing. Introduction of new looms – draw loom and horizontal loom.

UNIT - IV: INDUSTRIAL REVOLUTION AND MODERN TEXTILES

9 hrs

Industrialization and textile mechanization – spinning jenny, power loom and cotton gin. Emergence of textile mills – Britain, India and USA. Discovery of man-made fibers – rayon, nylon, polyester and acrylic. Growth of dye and chemical industries. Colonial trade and global textile expansion.

UNIT - V: CONTEMPORARY AND FUTURE TEXTILES

9 hrs

Global textile and apparel trade – WTO, MFA and ATC. Digitalization and automation in textile production. Technical and smart textiles. Sustainability and circular economy in textile industry. Revival of handlooms and eco-fashion movements. India’s role in global textile markets.

TOTAL: 45 HRS

REFERENCE BOOKS

1. Joyce Cox & Joan Lambert, (1999), World Textiles: A Visual Guide to Traditional Techniques, Thames & Hudson.
2. Mary Schoeser, (2003), World Textiles: A Concise History, Thames & Hudson.
3. Phyllis G. Tortora & Ingrid Johnson, (2013), The Fairchild Books Dictionary of Textiles, Fairchild Books.
4. Beverly Gordon, (2011), Textiles: The Whole Story – Uses, Meanings, Significance, Thames & Hudson.
5. Rajkishore Nayak, (2019), Sustainable Technologies for Fashion and Textiles, Textileinstitute.org.

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|---|--|-------------|------------------|--------------------|--------------------------|--------------------------|-------------------------------|------------------------------|--------|------|------|------|
| SubjectCode: HMCC22002 | Subject Name: INTELLECTUAL PROPERTY RIGHTS AND PATENTS | | L | T/S. Lr | P/R | C | Ty/L b/ET P/IE | | | | | |
| | Prerequisite: Nil | | 3 | 0 | 0 | 3 | Ty | | | | | |
| L: Lecture T: Tutorial SLr: Supervised Learning P: Project R: Research C: Credits Ty/L/ETL: Theory / Lab / Embedded Theory and Lab | | | | | | | | | | | | |
| OBJECTIVE: | | | | | | | | | | | | |
| <ul style="list-style-type: none"> ➤ To introduce fundamental aspects of Intellectual property Rights to students who are going to play a major role in development and management of innovative projects in industries. ➤ To develop expertise in the learners in IPR related issues and sensitize the learners with the emerging issues in IPR and the rationale for the protection of IPR. | | | | | | | | | | | | |
| COURSE OUTCOMES (COs): (3-5) | | | | | | | | | | | | |
| CO1 | Imbibe the knowledge of Intellectual Property and its protection through various laws. | | | | | | | | | | | |
| CO2 | Apply the knowledge of IPR for professional development | | | | | | | | | | | |
| CO3 | Develop a platform for protection and compliance of Intellectual Property Rights & knowledge | | | | | | | | | | | |
| CO4 | Create awareness amidst academia and industry of IPR and Copy right compliance | | | | | | | | | | | |
| CO5 | Deliver the purpose and function of IPR and patenting | | | | | | | | | | | |
| Mapping of Course Outcomes with Program Outcomes (POs) | | | | | | | | | | | | |
| COs/Pos | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | | | |
| CO2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| CO3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | | | |
| CO4 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | | | |
| CO5 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | | | |
| Category | H&S | Programcore | Program Elective | Open elective | Skill enhancing elective | Interdisciplinary/Allied | Skillcomponent | PracticalProject/ Internship | others | | | |
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|--|--|------------------|---|-------------|-----|---|
| Subject code: HMCC22002 | Subject Name: INTELLECTUAL PROPERTY RIGHTS AND PATENTS | Ty/Lb/ ETL/IE | L | T / S.Lr | P/R | C |
| | Prerequisite: Nil | Ty | 3 | 0 | 0 | 3 |
| L: Lecture T: Tutorial SLr: Supervised Learning P: Project R: Research C: Credits Ty/L/ETL: Theory / Lab / Embedded Theory and Lab | | | | | | |

UNIT-I **9 hrs**
 Introduction to IPRs, Basic concepts and need for Intellectual Property—Meaning and practical Aspects of Patents, Copy rights, Geographical Indications, IPR in India and Abroad. Nature of Intellectual Property, Industrial Property, technological Research, Inventions and Innovations – Important examples of IPR.

UNIT-II **9 hrs**
 Intellectual Property Rights. The IPR tool kit, Patents, the patenting process, patent cooperation treaties: International Treaties and conventions on IPRs: Trade Related Aspects of Intellectual Property Rights Agreement, Patent Cooperation Treaty, Patent Act of India, Patent Amendment Act, Design Act, Trademark Act, Geographical Indication Act.

UNIT-III **9 hrs**
 Intellectual Property Protections IPR of Living Species, protecting inventions in biotechnology, protections of traditional knowledge, bio-piracy and documenting traditional knowledge, Digital Innovations and Developments as Knowledge Assets – IPR Laws, Cyber Law and Digital Content Protection. Case studies: The basmati rice issue, revocations of turmeric patent, revocation of neem patent.

UNIT-IV **9 hrs**
 Exercising and Enforcing of Intellectual Property Rights of an IP Owner, licensing agreements, criteria for Patent infringement. Case studies of patent infringement, IPR—contract, unfair competitions and control, provisions in TRIPS.

UNIT-V: **9 hrs**
 Role of Patents in Product Development & Commercialization Recent changes in IPR laws impacting patents and copyrights intellectual cooperation in the science and allied industry. Patentable and non-patentable research. Case studies.

Total: 45HRS

Textbook:

1. Nithyananda, K. V. (2019). Intellectual Property Rights: Protection and Management. India, IN: Cengage Learning India Private Limited.
2. Neeraj, P., & Khusdeep, D. (2014). Intellectual Property Rights. India, IN: PHIL earning Private Limited.

References:

1. P.B. Ganguli, Intellectual Property Rights: Unleashing the Knowledge Economy. Tata McGrawHill, 2001.
2. Steve Smith, The Quality Revolution. 1st ed., Jaico Publishing House, 2002.
3. Kompal Bansal and Praishit Bansal. Fundamentals of IPR for Engineers, 1st Edition, BS Publications, 2012.
4. Prabhuddha Ganguli. Intellectual Property Rights. 1st Edition, TMH, 2012.
5. R. Radha Krishnan & S. Balasubramanian. Intellectual Property Rights. 1st Edition, Excel Books, 2012.
6. M Ashok Kumar & Mohd. Iqbal Ali. Intellectual Property Rights. 2nd Edition, Serial Publications, 2011. Vinod V. Scople, Managing Intellectual Property. Prentice Hall of India Pvt Ltd, 2012.

E-resources:

1. Subramanian., & Sundararaman, M. (2018). Intellectual Property Rights—An Overview. Retrieved from <http://www.bdu.ac.in/cells/ipr/docs/ipr-eng-ebook.pdf>
2. World Intellectual property Organization. (2004). WIPO Intellectual property Handbook. Retrieved from https://www.wipo.int/edocs/pubdocs/en/intproperty/489/wipo_pub_489.pdf

Reference Journal:

1. Journal of Intellectual Property Rights (JIPR): NISCAIR

Useful Websites:

1. Cell for IPR Promotion and Management (<http://cipam.gov.in/>)
2. World Intellectual Property Organization (<https://www.wipo.int/about-ip/en/>)

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|-----------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25L03 | Subject Name: DRAPING TECHNIQUES LAB | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Basic Knowledge in draping | 0 | 0 | 4/0 | 2 | Lb |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To introduce the fundamental principles and techniques of basic draping in fashion design.
- To explore dart and fabric manipulation techniques for creative garment design.
- To develop practical draping skills by creating a variety of garment styles.
- To develop skills in creating structured and visually appealing gown silhouettes directly on the dress form.
- To enable students to analyze, interpret and replicate a designer garment.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|---|
| CO1 | Prepare the dress form using padding, muslin or styling tape for accurate shaping and proportion matching to human body measurements. |
| CO2 | Ability to apply dart and fabric manipulation methods to enhance accurate fit and refined finish. |
| CO3 | Develop refined skills in garment draping and construction for dresses |
| CO4 | Demonstrate the ability to drape semi-formal gowns with clean lines, flattering fits and appropriate ease for comfort. |
| CO5 | Recreate complex garment shapes and style lines through advanced draping techniques on a dress form. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| CO2 | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 1 | 3 | 2 | 2 | 2 |
| CO4 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 3 | 2 | | | | | |
| CO2 | 3 | 2 | 3 | 2 | | | | | |
| CO3 | 3 | 3 | 3 | 3 | | | | | |
| CO4 | 3 | 3 | 2 | 3 | | | | | |
| CO5 | 3 | 3 | 3 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/ Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|----------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25L03 | Subject Name: DRAPING TECHNIQUES LAB | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Basic Knowledge in draping | 0 | 0 | 4/0 | 2 | Lb |

1. BASIC DRAPING

6 hrs

Draping, marking and truing of basic front and back bodice – one-dart and two-dart Sloper, draping of basic sleeve and basic skirt.

2. DRAPING MANIPULATION

6 hrs

Dart manipulation - slash-and-spread method and pivot method. Dart variations: side bust dart, French dart, bustline shirring, center front dart and shoulder dart. Fabric manipulation techniques: pleats, ruffles and gathers.

3. CREATIVE DRAPING TECHNIQUES

6 hrs

Create bias - cut slip dress, princess line dress and asymmetrical dress, skirt, pant, sleeve, collars, side seam cowl and peplum.

4. COUTURE DRAPING AND EVENING WEAR

6 hrs

Drape gowns for cocktail dress and red-carpet dress; corseting – boning placement and cup insertion techniques.

5. DESIGNER GARMENT REPLICATION

6 hrs

Replication of a designer garment using advanced draping and construction techniques.

TOTAL: 30 HRS

REFERENCE BOOKS

1. Di Marco, Sally M, (2009), Draping basics, Fairchild Books.
2. Martha Gene Sheldon, (1974), Design through draping, Burgess Pub. Co.
3. Amaden Crawford, Connie, (2004), The art of fashion draping, Fairchild books.
4. Joseph Armstrong, Helen, (2013), Draping for apparel design, Fairchild books.
5. Kiisel, Karolyn, (2013) , Draping : the complete course, Laurence King Publishing, London.

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|-----------------------------------|---|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25L04 | Subject Name: ADVANCED PATTERN MAKING AND GARMENT CONSTRUCTION LAB | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To develop skills in drafting and constructing kids garments.
- To apply advanced techniques in creating women's traditional and modern wear.
- To gain proficiency in pattern making and construction of men's garments.
- To design functional garments catering to maternity and mobility needs.
- To replicate designer-inspired garments with professional accuracy.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|---|
| CO1 | Ability to draft and stitch well-fitted kids' wear. |
| CO2 | Construct creative and stylish women's garments. |
| CO3 | Produce tailored and well-finished men's wear. |
| CO4 | Design and develop adaptive garments for special needs. |
| CO5 | Replicate designer garments with precision and presentation skills. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| CO2 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO4 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 |
| CO5 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 3 | 2 | | | | | |
| CO2 | 3 | 3 | 3 | 2 | | | | | |
| CO3 | 3 | 2 | 3 | 3 | | | | | |
| CO4 | 3 | 3 | 2 | 3 | | | | | |
| CO5 | 3 | 3 | 3 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|---|----------|--------------------|------------|----------|--------------------------|
| Subject Code: HMFD25L04 | Subject Name: ADVANCED PATTERN MAKING AND GARMENT CONSTRUCTION LAB | L | T/S.L r | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |

- | | |
|--|--------------|
| 1. KIDS APPARELS | 6 hrs |
| Draft and construct - Summer Dress and Party Wear. | |
| 2. WOMEN'S APPARELS | 6 hrs |
| Draft and Construct - Princess Style Kameez, Angarkha, Peshwas, Gharara Sharara and Designer Blouse. | |
| 3. MEN'S APPARELS | 6 hrs |
| Draft and Construct - Casual Shirt, Trouser, Kurta, Pyjama and Blazer. | |
| 4. APPAREL FOR SPECIAL NEEDS | 6 hrs |
| Design and develop a garment for maternity and mobility support. | |
| 5. REPLICATION | 6 hrs |
| Replicate a designer inspired Kids wear, Women's wear and Men's wear. | |

TOTAL: 30 HRS

REFERENCE BOOKS

1. Helen Joseph Armstrong, (2014), Pattern making for fashion Design, Pearson education limited.
2. Dominique pellen, (2014), Patter making for women's wear, Vol. 3, OTKUUT Publications.
3. Antonio Donnanno, (2018), Fashion pattern making techniques for children's clothing, Promopress, India.
4. Kershaw, Gareth, (2013), Pattern making for menswear, Laurence king Publications.
5. Frank Trapperr, (2018), Red Carpet: Hollywood Fame and Fashion, Welcome Books.

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|-----------------------------------|--|---------------------|----------|-----------------|------------|----------|
| Subject Code: HMFD25I01 | Subject Name: SUMMER INTERNSHIP | Ty/L/ ETL/I E | L | T / S.L r | P/R | C |
| | Prerequisite: Nil | IE | 0 | 0/0 | 4/0 | 2 |

Summer Internship:

Students are required to undergo a Summer Internship in Fashion or Textile industries for a minimum cumulative period of 30 days during the semester. During the internship, students are expected to gain practical exposure and hands-on experience relevant to their field of study. Upon completion, each student must prepare a comprehensive report detailing the nature of the work undertaken, along with an Internship Certificate issued by a competent authority from the respective organization. At the end of the semester, a Viva-Voce examination will be conducted by examiners appointed by the Head of the Department, and students will be evaluated based on their internship performance, report, and presentation.

SEMESTER-III

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|-----------------------------------|---|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25006 | Subject Name: APPAREL QUALITY CONTROL AND STANDARDS | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Basic Knowledge apparel quality control and standards | 4 | 0 | 0 | 4 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits

T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To gain knowledge about different quality control program.
- To learn testing methods from fibre to finished product.
- To understand the importance of quality standards in textile industry.
- To provide guidelines for the healthy environmental conditions in textile production.
- To identification of Critical Inspections Points for quality standard.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|--|
| CO1 | Discuss the different types of Quality standard and its implementations. |
| CO2 | Compare Quality standards of textile testing process involved in apparel industry. |
| CO3 | Illustrate the procedure and process involved in quality checking. |
| CO4 | Associate the importance of Eco specification and management of textiles. |
| CO5 | Experiment the Quality control process and its implementation in apparel. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 |
| CO2 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO4 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 2 | 2 | | | | | |
| CO2 | 3 | 2 | 3 | 2 | | | | | |
| CO3 | 3 | 2 | 3 | 2 | | | | | |
| CO4 | 3 | 3 | 2 | 3 | | | | | |
| CO5 | 3 | 2 | 3 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/ Allied | Skill Component | Practical /Project/internship | Others |
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|-----------------------------------|---|----------|---------------|------------|----------|----------------------|
| Subject Code: HMFD25006 | Subject Name: APPAREL QUALITY CONTROL AND STANDARDS | L | T/S.Lr | P/R | C | Ty/Lb/E TP/IE |
| | Prerequisite: Basic Knowledge apparel quality control and standards | 4 | 0 | 0 | 4 | Ty |

UNIT – I: QUALITY CONTROL PROGRAM

12 hrs

Starting a Quality Control Program and Product analysis using analytical tools. Quality management through Inspection, Testing and Sewing quality tools AQL and Quality control. Objective Evaluation of fabric Handle by KES and FAST systems.

UNIT -II: INSPECTION

12 hrs

Inspection - Raw materials – Fabric inspection systems - 4 point, 10 point system, Sewing Threads - Construction and Sew ability. Trims Inspection - Zippers waist band, buttons and Interlining. In process inspection - Spreading, Cutting, Sewing Quality Parameter and Types of defects occurring - Assembly defects. Final inspection - Finishing defects, No inspection, 100% inspection, Spot checking, Arbitrary and Sampling.

UNIT -III: INTRODUCTION TO QUALITY STANDARDS

12 hrs

Introduction to Quality Standards, Importance of Quality, British standards and ISO Standards for the Apparel Industry. ISO 9000 Standards, ISO 14000 Standards and Total Quality Management Systems.

UNIT- IV: ECO SPECIFICATION AND MANAGEMENT

12 hrs

Eco-management of Textile and Apparel. Eco Specification - Restriction in Apparel and Textiles - Dry cleaning using Ozone depleting chemicals, pH values, Formaldehyde contents, Heavy metal contents, Pesticides and Herbicides, Azo dye stuffs, Nickel, Pentachloro phenols, Colour Fastness, Brightener's and Softening agents.

UNIT- V: CARE LABEL

12 hrs

Introduction to Care Label – Importance of care labels - Different systems of care labeling - American, British and International Labelling. Eco-labelling and Oeko - Tex Standard 100.

TOTAL: 60 HRS

REFERENCE BOOKS

1. Mehta, Pradip V, (1992), An Introduction to Quality control for Apparel Industry, Milwaukee: ASQC Quality Press ; New York : M. Dekker
2. Periyasamy Aravin Prince, (2014), Apparel Quality Control, LAP Lambert Academic Publishing, India.
3. Pradip V Mehta, (1998), Managing Quality in Apparel Industry, New Age International Private Limited.
4. K. Slater, (1993), Physical Testing and Quality control, Vol 123, No.1/2/3, The Textile institute.
5. R. Senthilkumar, (2016), Care Labelling in Garments, Createspace Independent Publications.

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|-----------------------------------|---|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25007 | Subject Name: TEXTILE DYEING AND FINISHING | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To understand traditional and enzymatic wet processing.
- To impart knowledge on textile dyeing techniques using various dye classes.
- To provide in-depth knowledge of the principles and applications of various functional finishes.
- To provide knowledge on the processing of grey fabric and their preparation.
- To provide guidelines for the healthy environmental conditions in textile production.

COURSE OUTCOMES (COs)

Students completing this course were able to

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| CO1 | Integrate combined enzymatic treatments to improve processing efficiency and sustainability. |
| CO2 | Evaluate the benefits and limitations of natural and synthetic dyes and adopt eco-friendly dyeing solutions. |
| CO3 | Design textile finishing processes based on end-use requirements in textiles. |
| CO4 | Describe different garment dyeing techniques and evaluate specific dyeing operations. |
| CO5 | Associate the importance of eco specification and management of textiles. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 |
| CO2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 3 |
| CO3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO4 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO5 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 2 | 2 | | | | | |
| CO2 | 3 | 2 | 2 | 3 | | | | | |
| CO3 | 3 | 3 | 3 | 2 | | | | | |
| CO4 | 3 | 2 | 3 | 2 | | | | | |
| CO5 | 3 | 3 | 2 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25007 | Subject Name: TEXTILE DYEING AND FINISHING | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

UNIT – I: PREPARATORY PROCESSES

9 hrs

Desizing, Scouring, Bleaching, Mercerization. Application of enzymes in processing: Mechanism of enzyme reactions – Bio scouring, Bio- bleaching, Bio-polishing and the other combined processes.

UNIT - II: DYEING

9 hrs

Introduction, Classification, Theory of Dyeing, Application of dyes - Direct, Basic, Acid, Vat, Reactive, Sulphur and Disperse dyes. Eco-friendly dyeing, Natural dyes – Importance and Applications. Developments in the application of Direct, Reactive, and Disperse dyes to textile materials using batch wise, continuous methods and Waterless dyeing.

UNIT - III: CHEMICAL FINISHING

9 hrs

Application of Water Repellent/Proof, Flame Retardant, Mildew Proof, Moth Proof, Anti-Static, Soil Release, UV Protection, Anti-microbial, Odour Control, Fragrance Finishes, Resin Finishing, Durable Press, Wrinkle Free and Silicone Finishing.

UNIT - IV: GARMENT PROCESSING & FINISHING

9 hrs

Processing of Grey fabric garments, Garment dyeing, Machinery for garment dyeing, Garment finishing and Printing. Denim finishing: Process conditions, Machineries, Chemicals and Enzymes used for various Special Effects, Stone Wash, Enzyme Wash, Sand Blasting, Ozone and Laser Fading.

UNIT – V: ENERGY CONSERVATION STEPS IN CHEMICAL PROCESSING

9hrs

Low wet pick-up techniques – causes, remedies for water and air pollution. Wastewater Characteristics; wastewater treatment - objectives, methods and implementation. Recycling of effluents, low cost adsorbents and modern effluent treatment processes.

TOTAL: 45 HRS

REFERENCE BOOKS

1. Chakraborty, J N, (2014), Fundamentals and Practices in Colouration of Textiles, 2nd edition, Woodhead Publishing India Pvt. Ltd.
2. Chritie R, (2007), Environmental aspects of textile dyeing, Wood head Publishing Ltd, UK.
3. Mahapatra N N, (2018), Textile Dyeing, Wood head Publishing India Pvt. Ltd.
4. Mahapatra N N, (2016), Textile Dyes, Wood head Publication Pvt., Ltd.
5. Mathews Kolanjikombil, (2019), Pretreatment of Textile Substrates, Wood head publishing India Pvt. Ltd.
6. Vigneswaran C, Ananthasubramanian M, Kandhavadvu P, (2014), Bioprocessing of Textiles, Wood head Publishing India Pvt. Ltd.

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|--|---|----------|---------------|------------|----------|------------------------------------|
| Subject Code: HMOL22IE1 | Subject Name : Open Elective – Swayam/NPTEL/Any MOOC | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/ I E |
| | Prerequisite: | 3 | 0/0 | 0/0 | 3 | IE |
| L : Lecture T : Tutorial SLr : Supervised Learning P : Project R : Research C: Credits T/L/ETL : Theory/Lab/Embedded Theory and Lab | | | | | | |

Students should register for the online course with minimum course duration of 8 weeks through the online portals such as NPTEL/SWAYAM/Any MOOC in the beginning of the semester. The course can be core/interdisciplinary in such a way that the same course is not repeated during the course of study. Students are expected to attend the online classes regularly and submit the weekly assignments before the due dates. Students should appear for the online examination and submit the certificate at the end of the semester. Internal examination will be conducted by the examiners duly appointed by the head of the department.

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|-----------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25L05 | Subject Name: VISUAL MERCHANDISING AND DISPLAY LAB | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To introduce students to the fundamental principles of store design and visual aesthetics.
- To develop creative skills in conceptualizing and executing window and in-store displays.
- To familiarize students with merchandising tools and fixtures to enhance customer experience.
- To understand the operational aspects of different retail formats and their workflow systems.
- To provide practical exposure to visual merchandising applications and processes in the textile and fashion retail industry.

COURSE OUTCOMES (COs)

Students completing this course were able to

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|------------|--|
| CO1 | Apply design principles in store layout, space planning, lighting and material selection. |
| CO2 | Conceptualize and create thematic and seasonal window displays using props, mannequins and backdrops. |
| CO3 | Implement effective in-store merchandising strategies, including product zoning, cross-merchandising and brand storytelling. |
| CO4 | Understand the structure, workflow, and operational functions of various retail store formats. |
| CO5 | Demonstrate knowledge of visual merchandising practices and execution processes within the textile and fashion industry. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| CO2 | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO4 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 3 | 2 | | | | | |
| CO2 | 3 | 2 | 3 | 2 | | | | | |
| CO3 | 3 | 2 | 3 | 3 | | | | | |
| CO4 | 3 | 3 | 3 | 3 | | | | | |
| CO5 | 3 | 3 | 3 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
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|-----------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25L05 | Subject Name: VISUAL MERCHANDISING AND DISPLAY LAB | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |

- 1. STORE DESIGN & LAYOUT** **6hrs**
 Layout types, Space planning and circulation design, Product zoning, Lighting, Color theory and material selection for displays.

- 2. WINDOW DISPLAY TECHNIQUES** **6hrs**
 Concept development and theme creation. Types of window displays, Props, mannequins and backdrop design, Seasonal and promotional display planning.

- 3. IN-STORE MERCHANDISING** **6hrs**
 Fixtures and equipment, Signage systems and POP (Point of Purchase) materials, Product presentation techniques, Cross-merchandising and outfit coordination. In-store storytelling and brand ambience, In-store events, installations and experiential displays.

- 4. RETAIL SHOP OPERATIONS** **6hrs**
 Types of retail formats - Boutique, flagship, department store and concept store. Store operational workflow.

- 5. TEXTILE INDUSTRY** **6hrs**
 Visual merchandising in industry – models, components in industry through work flow and execution.

TOTAL: 30 HRS

REFERENCE BOOKS

1. Pegler, M. M. (2012), Visual Merchandising and Display. 6th Edition, Fairchild Books, New York.
2. Diamond, J., & Litt, S. (2016), Visual Merchandising and Display. 7th Edition, Bloomsbury Publishing Inc., New York.
3. Mills, K. H., Paul, J. E., & Moorman, K. B. (2018), Visual Merchandising: Window and In-Store Displays for Retail. Fairchild Books, New York.
4. Lea-Greenwood, G. (2013), Fashion Marketing Communications. Wiley-Blackwell, London.
5. Ebster, C., & Garaus, M. (2011), Store Design and Visual Merchandising: Creating Store Space That Encourages Buying. Business Expert Press, New York.
6. Bell, J., & Ternus, K. (2017), Silent Selling: Best Practices and Effective Strategies in Visual Merchandising. 5th Edition, Fairchild Books, New York.
7. Diamond, J. (2013), Fashion Retailing: A Multi-Channel Approach. Fairchild Books, New York.
8. Drake, M., & Ballie, J. (2014), Visual Merchandising for Fashion. Laurence King Publishing, London.

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|-----------------------------------|---|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25L06 | Subject Name: DIGITAL CAD - PATTERN MAKING AND GRADING LAB | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To understand the basic drafting tools in CAD to create pattern components.
- To develop skills in using CAD tools to modify and refine patterns for specific design needs.
- To analyze the techniques for customizing and modifying patterns to meet specific styling requirements.
- To learn how to edit and assign grading rules to patterns for accurate sizing.
- To explore the plotting process and how to calculate cutting widths, design repeats and marker efficiency.

COURSE OUTCOMES (COs)

Students completing this course were able to

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|------------|---|
| CO1 | Create essential pattern components such as points, notches, lines and pieces using CAD drafting tools. |
| CO2 | Manipulate pattern shapes, adding and adjusting darts, pleats, flare and gathers to meet design and fit specifications. |
| CO3 | Understand the process of pattern grading and apply techniques to scale patterns to different sizes. |
| CO4 | Apply grading methods to adjust patterns for various size ranges. |
| CO5 | Create efficient fabric markers, planning pattern piece layouts to maximize fabric usage and reduce waste. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| CO2 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO4 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 3 | 2 | | | | | |
| CO2 | 3 | 3 | 3 | 2 | | | | | |
| CO3 | 3 | 2 | 3 | 2 | | | | | |
| CO4 | 3 | 3 | 3 | 3 | | | | | |
| CO5 | 3 | 3 | 2 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
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|-----------------------------------|---|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25L06 | Subject Name: DIGITAL CAD - PATTERN MAKING AND GRADING LAB | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |

1. INTRODUCTION TO CAD

6hrs

Pattern design system (PDS) -storage areas, standard measurement units and rule table set up. Learning drafting tools - Creating points, notches, lines and pieces.

2. LEARNING MODIFICATION AND EDITING TOOLS

6hrs

Adding darts and dart manipulation, fullness – adding flare, pleats and gathers, combining and mirroring patterns, splitting and shaping patterns, adding seam allowances, naming and saving the patterns.

3. PATTERN DEVELOPMENT

6hrs

Digitizing, drafting, adaptation and grading of patterns: Construction of basic blocks for women, adaptation of patterns according to styling requirement.

4. GRADING

6hrs

Selecting grading methods, editing rule table, size range, assigning rule table, grading patterns with x and y co-ordinates.

5. MARKER MAKING AND PLOTTING

6hrs

Marker making procedure - fabric lay plan, fabric cutting width calculation, design repeat calculation, marker efficiency and plotting process.

TOTAL: 30 HRS

REFERENCE BOOKS

1. Helen Joseph-Armstrong, (2014), Patternmaking for Fashion Design, Pearson Education Limited.
2. W. H. Hulme, (2011), The Theory of Garment-Pattern Making, Read, Books Publishers
- Janet Arnold, (2008), Pattern cutting for fashion design (4th ed.), Fairchild Books.
3. Lucia Mors de Castro, Isabel Sanchez Hernandez, (2015), Practical Pattern Making: A Step-by-Step Guide, Firefly Books ltd.
4. Antonio Donnanno, Elisabetta Kuky Drudi, (2016), Fashion Patternmaking Techniques (Volume II), Promopress.
5. M Stott, (2012), Pattern Cutting for Clothing Using CAD, Woodhead Publishing.

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|-----------------------------------|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25L07 | Subject Name: SURFACE EMBELLISHMENT LAB | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To acquaint students with the knowledge of hand and machine embroideries.
- To design regional and cultural embroideries of India.
- To impart knowledge of basic fabric printing methods.
- To develop practical skills in crochet, knitting, tatting and drawn thread.
- To enhance creativity through surface ornamentation techniques.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|--|
| CO1 | Create embroidery samples showcasing different hand and machine embroidery stitches. |
| CO2 | Demonstrate traditional embroidery styles through sample work. |
| CO3 | Prepare fabric samples using block, screen and eco printing. |
| CO4 | Develop samples of crochet, knitting, tatting and drawn thread works. |
| CO5 | Create samples using applique, patchwork, quilting, mirror work and cut work. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| CO2 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 |
| CO4 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 3 | 2 | | | | | |
| CO2 | 3 | 3 | 2 | 3 | | | | | |
| CO3 | 3 | 2 | 3 | 3 | | | | | |
| CO4 | 3 | 3 | 3 | 2 | | | | | |
| CO5 | 3 | 3 | 3 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
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|-----------------------------------|--|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25L07 | Subject Name: SURFACE EMBELLISHMENT LAB | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |

- 1. BASIC EMBROIDERIES 6 hrs**
 Hand embroidery – Running, Back, Stem, Blanket, Laisy daisy, Chain, Couching, Herringbone, Fish bone, Feather, Seed, Cross, Fly, Satin, long and short, French knot, Bullion Knot, Coral and Fern stitch. Machine Embroidery and types of stitches.
- 2. TRADITIONAL EMBROIDERIES 6 hrs**
 Application of Traditional Indian Embroideries: Kantha of Bengal, Chikan work of Lucknow, Kutch, Kathiawar and Sindh embroideries, Phulkari of Punjab, Kashida embroidery of Kashmir, Kasuti of Karnataka and Embroidery of Rajasthan.
- 3. THREAD WORKS 6 hrs**
 Crochet - single crochet, double crochet, half double crochet, triple crochet and finishing edges. Knitting - structural stitches knit and purl stitch, edges and joints between fabrics. Drawn thread work.
- 4. PRINTING, DYEING AND PAINTING 6 hrs**
 Styles of printing: Direct, Block, Resist, Screen and Stencil printing. Eco printing - Flowers, Leaves and Vegetable blocks. Tie and Dye, Resist Dyeing – Batik. Fabric painting
- 5. DECORATIVE ORNAMENTATION 6 hrs**
 Applique work, Patch work, Quilting, Mirror work, Shisha embroidery, Cut work, Bead work, Sequins work and Zardosi work.

TOTAL: 30 HRS

REFERENCE BOOKS

1. Munni Srivatsava, (2005), Embroidery Techniques from East and West, Bats ford Ltd London.
2. Nancy Ziemon, (2005), Machine Embroidery with confidence – A beginner’s guide Krause Publications, West Indies.
3. Margo Singer, (2007), Textile Surface Decoration - Silk and Velvet, Textile handbook, Black Publishers, Great Britain.
4. Mary E. Waring, (2000), Hand Book of Traditional Embroidery.
5. Linda Seward, (2009), The Complete Book of Patchwork, Quilting & Applique, Mitchel Beazley, Paper Back.

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|--|--------------------------------------|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25L08 | Subject Name: PROJECT PHASE I | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 0 | 0 | 4/0 | 2 | Lb |
| L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits T/L/ETL : Theory / Lab / Embedded Theory and Lab | | | | | | |

As a part of the M.Sc. Fashion Design curriculum, each student is required to undertake an individual project focusing on a relevant topic within the fashion and textile domain. The project may be academic, design-based or industrial in nature. Students are expected to identify a specific problem area or area of interest, conduct preliminary research, detailed literature review, define the objectives, scope, and methodology of the proposed study.

Those opting for industrial projects will approach suitable industries with the support of the university to identify a real-time industrial problem and finalize their project topic. In such cases, an industry guide from the collaborating company and an internal guide from the department must jointly supervise the student. During the initial phase of the project, students are required to prepare a project proposal or plan for departmental approval and submit a Project Phase–I report at the end of the semester. The Phase–I Viva-Voce examination will be conducted by examiners appointed by the Head of the Department to assess the student’s understanding of the topic, objectives and proposed methodology.

SEMESTER - IV

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|--|---------------------------------------|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25L09 | Subject Name: PROJECT PHASE II | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 0 | 0 | 9/9 | 9 | Lb |
| L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits T/L/ETL : Theory / Lab / Embedded Theory and Lab | | | | | | |

In continuation of the Phase–I work, students are expected to carry out the implementation and completion of their approved project during this phase. The focus will be on data collection, analysis, design development, experimentation and final outcome realization based on the objectives formulated in Phase–I. Each student will continue to work under the guidance of their assigned internal guide and for industrial projects under the joint supervision of the industry guide and internal guide. Students will be required to attend regular project review meetings to present progress updates and receive feedback from the internal guide.

At the end of the semester, students must submit a comprehensive project report or thesis documenting the methodology, results, analysis, conclusions and recommendations. The report should include relevant certificates, approvals and industrial endorsements, wherever applicable. The final Viva-Voce examination will be conducted by the examiner appointed by the Controller of Examinations to evaluate, the creativity and practical relevance of the work. This phase aims to enable students to apply the knowledge and skills acquired during the course to produce innovative, research-oriented and industry-relevant areas that contribute to the development of society and the fashion industry.

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|---|--|----------|---------------|------------|----------|------------------------------------|
| Subject Code: HMFD25I02 | Subject Name : RESEARCH PUBLICATION | L | T/S.Lr | P/R | C | Ty/Lb / ETP/I E |
| | Prerequisite: | 0 | 0/0 | 4/0 | 2 | IE |
| L : Lecture T : Tutorial S.Lr : Supervised Learning P : Project R : Research C: Credits T/L/ETL : Theory/Lab/Embedded Theory and Lab | | | | | | |

Students are supposed to prepare and publish the article based on his/her area of research in peer reviewed referred journal. Code of research publication ethics should be followed. After publishing the article students should present a seminar in presence of department faculties and PG students. At the end of semester viva examination will be conducted by the examiners appointed by the Head of the department.

PROGRAMME ELECTIVE - I

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|---|--|-------------------------|--------------------------------------|----------------------|---------------------------------|----------------------------------|------------------------|--------------------------------------|---------------|---------------------|
| Subject Code: HMFD25E01 | Subject: TEXTILE WET PROCESSING | | | | | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | | | | | 3 | 0 | 0 | 3 | Ty |
| L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits T/L/ETL : Theory / Lab / Embedded Theory and Lab | | | | | | | | | | |
| OBJECTIVES | | | | | | | | | | |
| <ul style="list-style-type: none"> • To impart knowledge about textile processing in terms of their origin and properties. • To understanding of concept of aesthetic finishes. • To characterize different processing equipment. • To learn about the dyeing and printing technique. • To identify the processing methods and knowing their Importance in clothing. | | | | | | | | | | |
| COURSE OUTCOMES (CO's) | | | | | | | | | | |
| Students completing this course were able to | | | | | | | | | | |
| CO1 | Impart knowledge about textile processing in terms of their origin and properties. | | | | | | | | | |
| CO2 | Understanding of concept of Processing work. | | | | | | | | | |
| CO3 | Characterize different processing equipment. | | | | | | | | | |
| CO4 | Learn about the Dyeing and Printing technique. | | | | | | | | | |
| CO5 | Apply knowledge of printing and its techniques. | | | | | | | | | |
| Mapping of Course Outcome with Program Outcome (PO's) | | | | | | | | | | |
| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | |
| CO1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | |
| CO2 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | |
| CO3 | 3 | 3 | 3 | 2 | 1 | 2 | 1 | 2 | 2 | |
| CO4 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | |
| CO5 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | |
| COs /PSOs | PSO-1 | | PSO-2 | | PSO-3 | | PSO-4 | | | |
| CO1 | 3 | | 2 | | 2 | | 1 | | | |
| CO2 | 3 | | 2 | | 2 | | 1 | | | |
| CO3 | 3 | | 2 | | 3 | | 2 | | | |
| CO4 | 3 | | 3 | | 3 | | 2 | | | |
| CO5 | 3 | | 3 | | 3 | | 3 | | | |
| 3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low | | | | | | | | | | |
| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others | |
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|-----------------------------------|--|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25E01 | Subject: TEXTILE WET PROCESSING | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

UNIT - I: WET PROCESSING

9 hrs

Sequence of textile fabrics production sequence of textile fabrics - flow chart - brief description on finishes - classification of finishes - importance of finishes - fabric preparation - singeing, desizing, scouring, bleaching (different methods), mercerizing (different methods) and carbonizing.

UNIT - II: AESTHETIC FINISHES

9 hrs

Aesthetic finishes: lustre - glazed, moire and embossed. Drapes - sizing, weighting, crisp and transparent, texture - embossed, pleated, flocked, embroidered and napped. Special purpose finishes: shrinkage control - different methods - shape retention methods - wrinkle free finishes.

UNIT - III: COMFORT FINISHES

9 hrs

Comfort related finishes - water repellent finishes, pilling resistance and abrasion resistant. Biological control finishes - moth and mildew control. Safety related finishes - flame retardant,. Environmental problems in the finishing and dyeing industry effluent treatment of water - methods and process involved.

UNIT - IV: DYES

9 hrs

Dyeing - dyes - classification, properties and types of dyes - direct, vat, reactive, acid, basic and azoic dyes. Vegetable dyes - types and colours commonly used. Significance of vegetable dyes, stages of dyeing - fibre, yarn, fabric and garment - process involved, advantages and limitations.

UNIT - V: DYEING METHODS

9 hrs

Dyeing techniques, methods of dyeing: batch dyeing - winch, jig, padding. Package dyeing, combination dyeing, machines used and process involved fastness properties of fabrics - water, sunlight etc.

TOTAL: 45 Hrs

REFERENCE BOOKS

1. Sara J Kadolph and Anna L Langford, (2002), Textiles - Ninth Edition Prentice hall, New Jersey.
2. J L Smith, (2003), Textile Processing, Abhishek Publications, Chandigarh.
3. Peters R, (1970), Textile Chemistry, Vol I, Textile Institute Manchester.
4. Shenai V, (1981), Technology of Textile Processing Vol III.
5. Lewis D M, (1990), Lewis D M, SDC Publications England Publications, Bombay.

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|-----------------------------------|------------------------------------|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25E02 | Subject Name: HOME TEXTILES | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To understand the essential properties, materials and quality standards of home textiles.
- To study principles of interior design and the role of textiles in home decoration.
- To learn the design, selection and care of various household furnishings.
- To explore construction, properties and maintenance of bed, furniture, and floor coverings.
- To gain knowledge of kitchen and bath linen, their decorative methods and quality parameters.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|---|
| CO1 | Identify suitable textile materials for various home furnishing applications. |
| CO2 | Apply principles of interior design, color and lighting in home décor. |
| CO3 | Design and select appropriate textiles for living rooms, windows and furniture. |
| CO4 | Evaluate the quality and performance of bed, upholstery and floor coverings. |
| CO5 | Create and assess functional and aesthetic kitchen and bath linen products. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| CO2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 |
| CO4 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 |

| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 |
|------------|-------|-------|-------|-------|
| CO1 | 3 | 2 | 2 | 1 |
| CO2 | 3 | 3 | 2 | 2 |
| CO3 | 3 | 3 | 2 | 3 |
| CO4 | 3 | 2 | 3 | 2 |
| CO5 | 3 | 3 | 3 | 3 |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|------------------------------------|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25E02 | Subject Name: HOME TEXTILES | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

UNIT – I: ESSENTIAL PROPERTIES AND QUALITIES

9 hrs

Home textiles importance, style – traditional, contemporary and modern. Materials – types, purpose, properties and applications. Quality standards and performance, factors influencing – climatic condition. Need for eco-friendly home textiles.

UNIT – II: INTERIOR DESIGN

9 hrs

Selection of home colours in interior design - lighting arrangements in living room- furniture selection - decorative methods - pictures for interior decoration - types, classification, uses of home textile, types of Rooms and arrangements. Other interior designing with textile materials - types of furniture

UNIT – III: LIVING ROOM FURNISHINGS

9 hrs

Living room furnishings: design, selection of fabric and color. Wall coverings and hangings: curtains and draperies. Window treatments: hard and soft, draperies - selection of fabric, color and design, accessories used, sofa, cushion, teapoy, bolster, screen cloth and its types. Mosquito net for window, Care and maintenance.

UNIT - IV: FURNITURE COVERINGS AND BED LINEN

9 hrs

Chair linen: classification, types and properties. Upholstery – types - sofa cover, cushion cover and automobile seat cover. Bed linen: bed spread, duvet, flat sheet, fitted sheet, pillow sham, quilt and bed ruffle. Mattresses and pillows - classification. Comforters and blankets - decorative methods, quality parameters and costing.

UNIT - V: FLOOR COVERINGS, KITCHEN AND BATH LINEN

9 hrs

Floor coverings - types - hard floor coverings, resilient floor coverings, soft floor coverings and rugs. Importance, recent developments of manufacturing floor and carpets. Care and maintenance. Kitchen articles – apron, mitten, pot holders, kitchen towel, bread basket, tea cozy- table cloth, napkin, mat and runner. Bath linen - shower curtains, bath rope, bath towel, pool / beach towel and bath mat. Bath sheet - study of decorative methods, quality parameters and costing of the above products.

TOTAL: 45 HRS

REFERENCE BOOKS

1. V.Ramesh Babu, S. Sundaresan, (2018), Home Furnishing, Wood head Publishing Indian Textiles, India.
2. Subrata Das, (2018), Performance of Home Textiles, Woodhead Publishing Pvt. Ltd, India.
3. T Rowe, (2009), Interior textiles - Design and Developments, Woodhead Publishing Pvt. Ltd India.
4. D.Gopalakrishnan, T. Karthik, (2016), Home Textiles, Daya Publishing House.
5. Jay Diamond and Ellen Diamond, (2007), Fashion Apparel, Accessories and Home Furnishings, Prentice Hall, New Delhi.
6. D Coleman, (2004), Luxurious Home Interiors, Gibbs Smith Publication, Hong Kong.

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|-----------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25E03 | Subject Name: TEXTILE MANAGEMENT | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Basic Knowledge in managing textile industries. | 3 | 0 | 0 | 3 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To understand the fundamentals of entrepreneurship and management functions.
- To identify various institutional supports available for entrepreneurs in the textile and garment sector.
- To gain knowledge about the structure and working of departments in a garment manufacturing unit.
- To comprehend the principles of factory design, layout, and industrial safety.
- To understand the procedures and documentation required for garment export.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|---|
| CO1 | Explain the concepts, types and importance of entrepreneurship and managerial functions. |
| CO2 | Identify institutional support systems available for entrepreneurs in the garment industry. |
| CO3 | Describe the functional departments and hierarchy within a garment manufacturing unit. |
| CO4 | Analyze principles of factory design, layout, and industrial health and safety. |
| CO5 | Interpret export documentation, finance, and the role of merchandisers in exports. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 1 | 2 |
| CO2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 1 | 2 |
| CO3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| CO4 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 |
| CO5 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 2 | 2 | 1 | 3 | | | | | |
| CO2 | 2 | 2 | 1 | 3 | | | | | |
| CO3 | 2 | 2 | 2 | 3 | | | | | |
| CO4 | 2 | 3 | 2 | 3 | | | | | |
| CO5 | 2 | 3 | 2 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary /Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|----------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25E03 | Subject Name: TEXTILE MANAGEMENT | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Basic Knowledge in managing textile industries. | 3 | 0 | 0 | 3 | Ty |

UNIT – I: ENTREPRENEURSHIP INTRODUCTION

9 hrs

Entrepreneurship – Meaning and definition, need for Entrepreneurs, qualities and types of Entrepreneurship. Difference between Entrepreneur and manager. Management - Definition - Management as a process – Planning, organizing, Directing, Controlling and Co- ordination.

UNIT - II: INSTITUTIONS SUPPORTING ENTREPRENEURS

9 hrs

Institutions supporting entrepreneurs- DIC, NSIC, SISI, SIPCOT, TII, KVIC, CODISSIA, commercial banks – SBI. Organizational structure of a garment unit – Hierarchical organization, production planning and control.

UNIT – III: DEPARTMENTS IN GARMENT UNIT

9 hrs

Different department in a garment unit – Design department, Finance department, purchasing department, Production department and organizing different sections – hierarchy personnel involved in all the departments - nature of the job.

UNIT - IV: FACTORY DESIGN AND LAYOUT

9 hrs

Factory Design and layout – importance of factory design, factors affecting factory design, Types of buildings, (single and Multi –store) – advantages and limitation. Factory layout – Process, Product and combined layout Design requirement – requirements relating to health, safety and welfare.

UNIT - V: EXPORT DOCUMENTATION

9 hrs

Garment Export - Performance of Indian Garment Export, SWOT Analysis Setting up of garment unit for export market, Export Document, Export finance- Payment method, Export shipping - Role of merchandiser in a garment unit.

TOTAL: 45 HRS

REFERENCE BOOKS

1. Dinakarpagare, (2013), Principles of management, Sultan Chand and sons, Delhi.
2. Dr. C.B Gupta, Dr N.P. Srinivasan, (2015), Sultan Chand and sons, Entrepreneurship Development in India–Delhi.
3. Darliesss O Koshy, (1997), Garment Exports, Winning Strategies, New Delhi: Prentice Hall of India Pvt Ltd.
4. AJ Chuter, (1995), Introduction to clothing production management, 2nd Edition, Wren bury Associates Ltd.
5. Harold Carr and Barbara Latham, (1994), The technology of clothing manufacture, Blackwell Science.

PROGRAMME ELECTIVE- II

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|-----------------------------------|---|----------|--------------------|------------|----------|--------------------------|
| Subject Code: HMFD25E04 | Subject Name: FASHION FORECASTING | L | T/S. Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Basic Knowledge about Fashion forecasting | 3 | 0 | 0 | 3 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To gain knowledge about identifying future fashion trends.
- To acquire skills in forecast seasonally.
- To learn the support design and product development.
- To understand consumer demands, lifestyle shifts, and fashion trends.
- To acquire knowledge in marketing analysis techniques.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|---|
| CO1 | Acquire knowledge on types, sources, processes and services of fashion forecasting. |
| CO2 | Explain the forecaster's and forecasting services role and decision making processes. |
| CO3 | Develop plans to engineer apparel products. |
| CO4 | Develop new products and evaluation of suitability function. |
| CO5 | Evaluate the economics underlying apparel products and projects. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| CO2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 |
| CO4 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 |
| CO5 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 2 | 2 | | | | | |
| CO2 | 2 | 3 | 2 | 2 | | | | | |
| CO3 | 3 | 3 | 3 | 2 | | | | | |
| CO4 | 3 | 3 | 3 | 3 | | | | | |
| CO5 | 2 | 2 | 2 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/ Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|----------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25E04 | Subject Name: FASHION FORECASTING | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Basic Knowledge about Fashion forecasting | 3 | 0 | 0 | 3 | Ty |

UNIT – I: FORECASTING

9 hrs

Definition of forecasting - Types of forecasting – Process of research, Colour research, Fashion research and Customer profile research. Source of fashion forecasting information – Forecasting agencies and their role in forecasting. Seasons and their impact on fashion. Compiling fashion forecasting information - Forecasting agencies – Forecasting magazines – Websites – Information in the forecasting publications. Fashion forecasting in Indian Scenario.

UNIT – II: ROLE AND PROCESS OF FORECASTING

9 hrs

Fashion forecasting packages and magazines, Specialist fashion forecasting companies – the role of forecaster in aiding fashion designers, Developers and retailers - Process of forecasting - Decision making process - When to start forecasting for the selling season.

UNIT – III: DESIGN LOGIC OF APPAREL PRODUCTS

9 hrs

Design logic of apparel products - Classification of textile products, Components, Aesthetics and Comfort of textile products, Anthropometry, Sizing, Body scanning and Fit analysis. Material, Specification, Properties and Technology of Constituent Fibres, Yarns, Fabrics and Apparels.

UNIT - IV: DEVELOPING NEW PRODUCT

9 hrs

Building of the first design ideas, planning to costing, Line building, from spec to samples, Production selling according to the seasons. Developing new product - Idea generation, Idea screening, Concept testing, Business analysis, the product development process, group product development, research, test marketing and commercialization.

UNIT - V: MARKETING ANALYSIS

9 hrs

Evaluation of portfolio of products or projects – Introduction and purpose of economic analysis – Market potential – Market demand – Estimating sales – Estimating cost and profit. Marketing analysis - advertising and media planning, fashion shows and other events, Industry tour and project. Surveys and Organizing of Exhibitions.

TOTAL: 45 HRS

REFERENCE BOOKS

1. Harold Carr & John Pomeroy, (1992), Fashion Design and Product development, 1st edition, Wiley India (P) Ltd.
2. Michael R. Solomen, Nancy J.Rabit , (2008), Consumer Behavior in Fashion Pearson Education Inc, 2nd edition , Upper Saddle River, N.J. : Pearson/Prentice Hall.
3. Kitty G. Dickerson, (2002), Inside the Fashion Business Pentice hall, 7th edition, Pearson.
4. Gini Stephens Frings, (2007), Fashion from Concept to Consumer Pearson Education Inc., 9th Edition and Pearson.
5. Peter Mc Claud, (2013), Past and Present Trends Fashion Technology, Abhishek Publications.

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|------------------------------------|---|----------|---------------|------------|----------|---------------------|
| Subject Code : HMFD25E05 | Subject Name: APPAREL AND VISUAL MERCHANDISING | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To understand the responsibilities, qualities and departmental interactions of a merchandiser.
- To provide a clear understanding of the sourcing process and types of sourcing.
- Understand the fashion industry's business and creative sides.
- To gain insight into the daily functions and responsibilities of a visual merchandiser.
- To introduce the principles of display themes and design elements used in retail.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|--|
| CO1 | Acquire knowledge on key responsibilities and desired traits of an effective merchandiser. |
| CO2 | Understand the concept, purpose, and classification of sourcing in the apparel industry. |
| CO3 | Understand roles and responsibilities within a merchandising team. |
| CO4 | Recognize the various career paths and job roles in visual merchandising. |
| CO5 | Apply techniques for end caps, tabletop, freestanding and showcase displays. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
| CO2 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 2 |
| CO3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| CO4 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 2 | 2 | 1 | 3 | | | | | |
| CO2 | 3 | 2 | 2 | 3 | | | | | |
| CO3 | 2 | 2 | 2 | 3 | | | | | |
| CO4 | 2 | 3 | 1 | 3 | | | | | |
| CO5 | 2 | 3 | 2 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|
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|------------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code : HMFD25E05 | Subject Name: APPAREL AND VISUAL MERCHANDISING | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

UNIT – I: INTRODUCTION TO MERCHANDISING

9 hrs

Introduction to Apparel industry - Merchandiser in Apparel industry – Roles of a fashion merchandiser – Role of a production merchandiser and Retail merchandiser. Responsibilities of a Merchandiser – Quality of a Merchandiser. Merchandiser interface with other departments of apparel industry.

UNIT - II: SOURCING FOR MERCHANDISER

9 hrs

Introduction – Classification of Sourcing Process – Sourcing strategies for decision-making – Sourcing process in an apparel industry – Role of merchandiser in sourcing process. Supplier or Vendor Management – Types of supplier for apparel industry.

UNIT – III: APPAREL FASHION MERCHANDISING

9 hrs

Fashion leadership theories, Fashion Merchandising – Fashion merchandising terminologies. Organization for Fashion Merchandising. Fashion Apparel Categories – Apparel Fashion Merchandising Process – Fashion direction, Design development, Sample development, Product specification, Merchandising Plan or Policy, Preparation of the plan Assortment planning, Buying, Receiving and Distribution.

UNIT - IV: VISUAL MERCHANDISING

9 hrs

Role of Visual Merchandiser, Day to day role of visual merchandiser, Visual Merchandising as career, Training, Visual merchandising in departmental stores, Visual merchandising of multiple chain stores, Visual merchandising of Small, Retail outlets and Store design. Floor layout.

UNIT - V: DISPLAY AND LIGHTING

9 hrs

Display Themes and schemes, designing a window display and types of window display, Wall display and options, other types of display. Fixture: Fixtures and types, Floor fixtures and types, Mannequins and types Props. Lighting and types, Signage, types, materials and graphics Point of purchase and add on sales, Clearance and merchandise, Signage and tagging. Virtual visual merchandising Sculpting Window calendar.

TOTAL: 45 HRS

REFERENCE BOOKS

1. Ellen diamond and Jay, (1998), Fashion advertising and promotion, Fairchild publication.
2. Kumar, (2010), Apparel Merchandising, Abhishek Publications.
3. Tony Morgan, (2011), Fashion advertising and promotion, Fairchild publication.
4. Judy bell, (2011), silent selling: Best Practices and Effective strategies in Visual Merchandising, Fair Child Publishing.
5. Tony Morgan, (2016), Visual Merchandising third edition, Laurence king.

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|-----------------------------------|---|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25E06 | Subject Name: TEXTILE FINISHES | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Basic Knowledge about different finishes in Textile industry. | 3 | 0 | 0 | 3 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits

T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To understand about the textile finishes and its importance.
- To gain knowledge about mechanical finishes and its application.
- To understand the methods of application.
- To know the details functional finishes and its types.
- To study about the special finishes on garments and recent developments in textile finishing.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|--|
| CO1 | Familiar about the Textile Finishes and its importance. |
| CO2 | Gain knowledge about mechanical finishes and its application. |
| CO3 | Understood the methods of application. |
| CO4 | Know the details functional finishes and its types. |
| CO5 | Study about the special finishes on garments and recent developments in textile finishing. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| CO2 | 3 | 3 | 2 | 1 | 1 | 2 | 1 | 2 | 2 |
| CO3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 2 |
| CO4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 |
| CO5 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 1 | 1 | | | | | |
| CO2 | 3 | 2 | 2 | 1 | | | | | |
| CO3 | 3 | 2 | 3 | 1 | | | | | |
| CO4 | 3 | 3 | 2 | 2 | | | | | |
| CO5 | 3 | 3 | 2 | 2 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/ Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|----------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMFD25E06 | Subject Name: TEXTILE FINISHES | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Basic Knowledge about different finishes in Textile industry. | 3 | 0 | 0 | 3 | Ty |

UNIT – I: INTRODUCTION

9 hrs

Finishing – Introduction, production sequence and flow chart of wet processing. Textile Finishes - Objects of finishing, Importance of finishing and Classification of finishes.

UNIT - II: MECHANICAL FINISHES

9 hrs

Mechanical Finishes – Introduction. Types of mechanical finishing – heat setting, raising, calendaring, friction, schreiner, embossing, swizzing, chasing, felt, nipco-flex and sueding. Compacting – sanforizing, stentering and tubular. Shearing - thermo – finish.

UNIT –III: FUNCTIONAL FINISHES AND ITS TYPES

9 hrs

Functional Finish – Wrinkle free finish - Types, Water Repellent finish – Mechanism of Repellency, Mechanical Flame Retardants- Types and mechanism. Anti-microbial finishes – Requirements, Mechanism and Finishing agents. Anti-static finish - Mechanism, Soil Release finishes – Mechanism.

UNIT- IV: SPECIAL PURPOSE FINISHES

9 hrs

Silicone finishes, Denim finishes – Denim Washing, Chemical wash, Enzyme wash, Acid, Mechanical washes, Micro sanding, Sand blasting, Whiskering, Flat finish, Other Mechanical and Chemical washes. Fragrance finishing – Technology, Process and Applications. UV Protection Finishes - Phase Change finishes.

UNIT- V: RECENT DEVELOPMENTS IN TEXTILE FINISHING

9 hrs

New technologies in Textile finishing – Ultrasonic waves, Microwaves and Electrochemical dyeing. Pre – treatments using Plasma technology, Waterless dyeing and Biotechnological catalytic bleaching. Single stage preparatory process and Foam finishing.

TOTAL: 45 HRS

REFERENCE BOOKS

1. Shenai and Saraf, (1995), Technology of Textile Finishing, Sevak publications.
2. Nallangilli and Jayaprakasam, (2005), Textile Finishing. S.S.M Institute of Textile Technology.
3. Prayag, (1996), Technology of finishing, Shree J. Printers, Pune.
4. P Vinayagamurthi & S Kavitha Gopalakrishnan, D, (2020), Textile Finishing: Basic Concepts and Application, Daya Publishing House.
5. K. L. Mittal, Thomas Bahners , (2017), Textile Finishing: Recent Developments and Future Trends (Adhesion and Adhesives: Fundamental and Applied Aspects), Wiley-Scrivener.

PROGRAMME ELECTIVE - III

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|-----------------------------------|---|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25E07 | Subject Name: SUSTAINABLE FASHION AND TEXTILES | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To understand sustainability and explain its importance in the fashion industry.
- To evaluate fashion consumption patterns and eco-design concepts.
- To explore methods to enhance durability and resource efficiency.
- To understand design approaches such as modularity, multi functionality, and repairability.
- To analyze leading sustainable fashion brands in India and abroad.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|--|
| CO1 | Understanding of up-cycling, recycling, reconstruction and zero-waste methods. |
| CO2 | Evaluate fashion consumption behavior and apply eco-design principles. |
| CO3 | Ability to improve garment durability and ensure efficient use of materials and resources. |
| CO4 | Develop design ideas using modular and multifunctional approaches. |
| CO5 | Examine sustainable fashion brands in India and abroad and identify their key practices. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 2 |
| CO2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 3 |
| CO3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 |
| CO5 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 2 | 1 | | | | | |
| CO2 | 3 | 3 | 2 | 2 | | | | | |
| CO3 | 3 | 2 | 3 | 2 | | | | | |
| CO4 | 3 | 3 | 2 | 2 | | | | | |
| CO5 | 2 | 3 | 1 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/ Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|----------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|---|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25E07 | Subject Name: SUSTAINABLE FASHION AND TEXTILES | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 3 | 0 | 0 | 3 | Ty |

UNIT – I: INTRODUCTION

9hrs

Sustainability - Definition, Importance and Techniques - Up-cycling, Recycling, Reconstruction and Zero waste. Annual global fashion consumption, Circular economy in fashion, Issues in sustainable fashion and Future of sustainability.

UNIT – II: RETHINKING FASHION DESIGN

9 hrs

Rethinking fashion design - Social and environmental impact on clothing supply chain, Consumption of fashion and eco design. Life cycle of a garment – Life cycle thinking, Process of making improvements, Identifying the impacts and life cycle assessment model. Sustainable Design process - Garments for empathy, garments for wellbeing, low impact materials and process, mono-materials used in garments.

UNIT – III: SUSTAINABLE PRODUCTION STRATEGIES

9 hrs

Sustainable production Strategies - Zero waste production, Durability, Efficient use of materials and resources, ethical and fair-trade production. Sustainable product distribution - Produce for need, transport minimization, reduce/reuse packaging, and engage with local communities.

UNIT- IV: SUSTAINABLE PRODUCTS

9hrs

Sustainable products: multi-functional garments, Modularity in design, Low-impact care apparels, Customization and Repairing garments. Garment recycling: Garment reuse, Disassembly of garments, Garment upcycling/recycling, Remanufacturing, Closed-loop system and Innovation in textile waste management.

UNIT- V: SUSTAINABLE FASHION BUSINESS MODE

9hrs

Forms of Sustainable fashion. Pillars of Sustainable Business Model, Sustainable fashion brands in India and Abroad, Marketing sustainable fashion, Sustainable material directory, Differences between Eco fashion, Sustainable fashion, Slow fashion, and Green washing - Examples of green washing in marketing.

TOTAL: 45 HRS

REFERENCE BOOKS

1. Alison Gwilt, (2020), A practical guide to sustainable fashion, Bloomsbury publication, USA.
2. Pintu Pandit, Shakeel Ahmed, Kunal Singha, Sanjay Shrivastava, (2020), Recycling from wastes in fashion and textiles: A sustainable and circular economic approach, Scrivener Publishing, USA.
3. Wang. Y, (2016), Recycling in textiles, Wood Head Publishing, UK.
4. Lucy Norris, Cynthia, R. Jasper and Emily Lupton Metrish, (2010), Recycling Indian Clothing, Indiana University Press.
5. Wearme Fashion, (2021), Sustainable Fashion: Responsible Consumption, Design, Fabrics and Materials, Promo press.

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|-----------------------------------|---|----------|--------------------|------------|----------|--------------------------|
| Subject Code: HMFD25E08 | Subject Name: TRADITIONAL TEXTILES OF INDIA | L | T/S. Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Basic Knowledge about traditions in Textile industry. | 3 | 0 | 0 | 3 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To acquire knowledge of different textiles produced in different states of India.
- To understand with the different motifs, colors and weaving techniques used in the textiles.
- To explore various embroideries of India with the historical background.
- To learn different types of stitches, motifs, colors and materials used in the handloom industry.
- To acquaint with the work of handloom board and khadi board in India.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|---|
| CO1 | Gain knowledge about traditional art and craft of India. |
| CO2 | Learn various stitches, motifs, threads, colours and fabrics used in traditional embroideries of India. |
| CO3 | Understand about incorporate traditional embroideries in apparels. |
| CO4 | Examine present status of traditional art and craft of India. |
| CO5 | Demonstrate the history and cultural significance of the chosen Indian embroidery technique. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 1 | 2 |
| CO2 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 |
| CO4 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 |
| CO5 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 |
| COs /PSOs | PSO-1 | PSO-2 | PSO-3 | PSO-4 | | | | | |
| CO1 | 3 | 2 | 1 | 2 | | | | | |
| CO2 | 3 | 2 | 2 | 1 | | | | | |
| CO3 | 3 | 3 | 2 | 2 | | | | | |
| CO4 | 2 | 3 | 1 | 3 | | | | | |
| CO5 | 2 | 3 | 1 | 2 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
|----------|--------------|------------------|-------------------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|
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|-----------------------------------|---|----------|---------------|------------|----------|----------------------|
| Subject Code: HMFD25E08 | Subject Name: TRADITIONAL TEXTILES OF INDIA | L | T/S.Lr | P/R | C | Ty/Lb/E TP/IE |
| | Prerequisite: Basic Knowledge about different finishes in Textile industry. | 3 | 0 | 0 | 3 | Ty |

UNIT – I: INTRODUCTION

9 hrs

Brief about the Traditional Textiles and Embroideries in India, Influence of foreign countries on Indian Embroidery. Understanding different stitches (running stitch, chain stitch, satin stitch, etc.). Types of Threads and Fabrics used and Embellishments (mirrors, beads, sequins, etc.).

UNIT - II: TEXTILES OF THE FOLLOWING STATES LISTED BELOW

9 hrs

Fiber used, Colors, Motifs and Weaving techniques used for producing the Traditional Textiles. Maharashtra, West Bengal, Andhra Pradesh, Gujarat, Saurashtra, Kutch, Rajasthan, Uttar Pradesh, Orissa, Karnataka, Kerala, Madhya Pradesh, Tamil Nadu, Assam, Jammu & Kashmir, Punjab and Manipur.

UNIT – III: EMBROIDERY OF THE FOLLOWING STATES

9 hrs

History, Materials, Stitches, Motifs, Colors, their significance and descriptive terms used per motifs. Kasuti of Karnataka, Embroidery of Sindh, Kutch and Kathiawar, Kashida of Kashmir, Kantha of Bengal, Chikankari of Uttar Pradesh, Manipuri Embroidery, Applique work of Bihar and Orissa. Gold and silver, Phulkari of Punjab and Chamba Rumal of Himachal Pradesh.

UNIT – IV: HANDLOOM INDUSTRY OF INDIA

9 hrs

History of Handloom Board, Functions of Handloom Board and Weaver's service centers. Khadi Board - Structure of Khadi Board and Functions of Khadi Board.

UNIT- V: MOTIFS AND ITS USAGE.

9 hrs

Floral motifs, Animal motifs, Geometric designs, Religious and Cultural symbols. Indian haute couture, Textile industry home décor, Art and craft projects.

TOTAL: 45 HRS

REFERENCE BOOKS

1. Jamila B. B, (1958), Costumes and Textiles of India Bombay Taraporevala's treasure house of books.
2. Chattopadhyaya K, (1969), Carpets & Floor covering of India. Taraporevala.
3. Dongerkery Kamala, (1951), Romance of Indian Embroidery Mumbai Thacker & Company
4. Dhamija J. & Jain,. (1989), Hand woven Fabrics of India Mapin Publisher.
5. Joshi I, (1963), Kasuti of Karnataka Bombay, Popular Prakashan.
6. Naik S. D, (1996), Traditional Embroidery of India, APH Publishing.
7. Chattopadhyaya K, (1985), Handicrafts of India. (Revised Edition). New Delhi, Indian Council for Cultural Relations.
8. Gillow J and Barnard N, (1991), Traditional Indian Textiles London, Thames and Hudson Ltd.

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|-----------------------------------|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25E09 | Subject Name: TEXTILE AND FASHION BUSINESS | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Explore the fashion business in textile industry | 3 | 0 | 0 | 3 | Ty |

L: Lecture T : Tutorial S.Lr : Supervised Learning P: Project R : Research C : Credits
T/L/ETL : Theory / Lab / Embedded Theory and Lab

OBJECTIVES

- To study about the business of fashion industry.
- To understand the role of design elements and principles.
- To identify target customers and analyze fashion preferences and trends.
- To familiarize the economic significance of the women's and children's apparel industry.
- To explore branding, positioning and retail strategies used for men's fashion and accessories.

COURSE OUTCOMES (COs)

Students completing this course were able to

| | |
|------------|--|
| CO1 | Scope of business communication and its process. |
| CO2 | Apply the elements and principles of design in creating or evaluating fashion looks. |
| CO3 | Analyze consumer fashion preferences and interpret trend patterns. |
| CO4 | Explain the economic role and industry classification of women's and children's apparel. |
| CO5 | Develop basic branding or merchandising concepts for a men's fashion or accessory line. |

Mapping of Course Outcome with Program Outcome (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|------------|------|------|------|------|-----|-----|-----|-----|-----|
| CO1 | 3 | 2 | 2 | 1 | 1 | 3 | 3 | 2 | 2 |
| CO2 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 2 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 |
| CO4 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 |
| COs /PSOs | PSO1 | PSO2 | PSO3 | PSO4 | | | | | |
| CO1 | 2 | 1 | 1 | 3 | | | | | |
| CO2 | 3 | 2 | 2 | 2 | | | | | |
| CO3 | 2 | 3 | 1 | 2 | | | | | |
| CO4 | 3 | 2 | 1 | 2 | | | | | |
| CO5 | 2 | 3 | 2 | 3 | | | | | |

3/2/1 Indicates Strength of Correlation, 3 – High, 2- Medium, 1- Low

| Category | Program Core | Program elective | Humanities and social Science | Open Elective | Skill enhancing elective | Inter Disciplinary/Allied | Skill Component | Practical /Project/internship | Others |
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|-----------------------------------|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMFD25E09 | Subject Name: TEXTILE AND FASHION BUSINESS | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Explore the fashion business in textile industry | 3 | 0 | 0 | 3 | Ty |

UNIT – I: THE BUSINESS OF MAKING AND SELLING FASHION **9 hrs**

The business of fashion industry – Scope of fashion industry and Economic importance. The Fashion Pipeline – Channel of distribution. Fashion and profit motive, the consumption of fashion goods – role of consumer and power of fashion. Major industry trends.

UNIT – II: PRINCIPLES OF FASHION **9hrs**

Language of Fashion - Style: Distinctive Characteristics. Design: Variations of a Style. Fashion means consumer acceptance and other key fashion terms. The Constant in Fashion is Change. Fashion: A "Follow the Leader" Process. How fashions develop, the role of Designer, Fashions reflect their "Times" and The Prediction of Fashion.

UNIT – III: THE CONSUMER **9hrs**

The Power of the Consumer and Organizing the Industry around the Consumer. The Marketing of Fashion - The Marketing Approach, Target Customers and Macroeconomic Factors that affect Consumption of Fashion. Analysis of Customers' Fashion Preferences and Trends. Quick Response as a Marketing Strategy - Push System and Pull System. The Marketing Concept and Manufacturing/Distribution, Serving Consumers in the Next Millennium and Federal Legislation Affecting Fashion Business.

UNIT - IV: THE WOMEN'S AND CHILDREN'S APPAREL INDUSTRY **9hrs**

Economic Importance, NAICS Groupings for Apparel, History and growth of the women's industry - ready to wear in the nineteenth century, Developments in the twentieth century, Industry Restructuring and Development of the Unions. The Organization of an Apparel Firm. An Industry reshaped by computer technology. Distribution Marketing Procedures. Nature of the Industry - Different types of producers. Children's Wear - Nature of the industry, industry specializations and marketing activities.

UNIT – V: THE MENSWEAR INDUSTRY **9hrs**

The Economic Importance, history and development. Nature of the Industry and Marketing of menswear. Fashion accessories, intimate apparel/undergarments. Cosmetics, Shoes, hosiery, handbags, small leather goods, gloves, millinery/hats and jewellery.

TOTAL: 45HRS

REFERENCE BOOKS

1. Mary Ellen Guffey, (2002), Business communication: process and product, Cengage Learning.
2. Penrose, Rasberry, Myers, (2004), Advanced Business Communication, Cengage Learning.
3. Krizan, Merrier, Jones, (2012), Business communication, Cengage Learning
4. Kitty G. Dikerson, (2009), Inside the Fashion Business, Dorling Kindersley.
5. Burns, Leslie Davis, (2016), The business of fashion: designing, manufacturing, and marketing, New York, NY, USA: Fairchild Books, an imprint of Bloomsbury Publishing Inc.

AUDIT COURSES

FOR ALL PG PROGRAMS OFFERED IN H&S

| AUDIT COURSE | | | | | | | |
|---------------------|-----------------|---|--------------------------|----------|--------------|------------|----------|
| S.No | Sub.Code | Title of the Subject | Ty/Lb/ ETL/IE | L | T/SLR | P/R | C |
| 1 | HMAC22I01 | English for Research paper Writing | Ty | 2 | 0/0 | 0/0 | 0 |
| 2 | HMAC22I02 | Disaster Management | Ty | 2 | 0/0 | 0/0 | 0 |
| 3 | HMAC22I03 | Sanskrit for Technical Knowledge | Ty | 2 | 0/0 | 0/0 | 0 |
| 4 | HMAC22I04 | Value Education | Ty | 2 | 0/0 | 0/0 | 0 |
| 5 | HMAC22I05 | Constitution of India | Ty | 2 | 0/0 | 0/0 | 0 |
| 6 | HMAC22I06 | Pedagogy Studies | Ty | 2 | 0/0 | 0/0 | 0 |
| 7 | HMAC22I07 | Stress Management by Yoga | Ty | 2 | 0/0 | 0/0 | 0 |
| 8 | HMAC22I08 | Personality Development through Life Enlightenment Skills | Ty | 2 | 0/0 | 0/0 | 0 |
| 9 | HMAC22I09 | Life skill | Ty | 2 | 0/0 | 0/0 | 0 |

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|-----------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMAC22I01 | Subject Name: ENGLISH FOR RESEARCH PAPER WRITING | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 0 | 0 | Ty |

L:Lecture T:Tutorial P:Project ;R:Research C:Credits T/L:Theory/Lab

Objectives

To know the art of writing the research paper and thesis.
To Ensure the good quality of paper at very first-time submission.

COURSE OUTCOMES(COs) :At the end of this course the students would be able to

| | |
|------------|---|
| CO1 | Understand that how to improve your writing skills and level of readability |
| CO2 | Learn about what to write in each section |
| CO3 | Understand the skills needed when writing a Title |

Mapping of Course Outcomes with Program Outcomes(POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PSO1 | PSO2 | PSO3 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| CO1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |

H/M/L indicates Strength of Correlation 3-High,2-Medium, 1-Low

| Category | Basic Sciences | Engineering Sciences | Humanities and Social Sciences | Program Core | Program Electives | Open Electives | Practical/Project | Internships /Technical Skill | Soft Skills | Audit Course |
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|-----------------------------------|---|----------|---------------|------------|----------|---------------------|
| Subject Code: HMAC22I01 | Subject Name: ENGLISH FOR RESEARCH PAPER WRITING | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 0 | 0 | Ty |

L: Lecture T:Tutorial P:Project; R:Research C:Credits Ty/L: Theory/Lab

Course objectives:

- To know the art of writing the research paper and thesis.
- To Ensure the good quality of paper at very first-time submission.

Syllabus

| Units | CONTENTS | Hours |
|--------------|--|--------------|
| 1 | Planning and Preparation, Word Order, Breaking up long sentences, Structuring Paragraphs and Sentences, Being Concise and Removing Redundancy, Avoiding Ambiguity and Vagueness. | 5 |
| 2 | Clarifying Who Did What, Highlighting Your Findings, Hedging and Criticising, Paraphrasing and Plagiarism, Sections of a Paper, Abstracts. Introduction | 5 |
| 3 | Review of the Literature, Methods, Results, Discussion, Conclusions, The Final Check. | 5 |
| 4 | Key skills are needed when writing a Title, key skills are needed when writing an Abstract, key skills are needed when writing an Introduction, skills needed when writing a Review of the Literature. | 5 |
| 5 | Skills are needed when writing the Methods, skills needed when writing the Results, skills are needed when writing the Discussion, skills are Needed when writing the Conclusions. | 5 |
| 6 | Useful phrases, how to ensure paper is as good as it could possibly be the first- time submission. | 5 |

Suggested Studies:

1. Goldbort R (2006) Writing for Science, Yale University Press (available on Google Books)
2. Day R (2006) How to Write and Publish a Scientific Paper, Cambridge University Press
3. Highman N (1998), Handbook of Writing for the Mathematical Sciences, SIAM. Highman'sbook.
4. Adrian Wallwork, English for Writing Research Papers, Springer New York Dordrecht Heidelberg London, 20

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|--|--|---------------------|-------------------------|----------------------|---------------------------------|---------------------------------|------------------------|--------------------------------------|---------------|-------------|---------------------|-------------|
| Subject Code: HMAC22I02 | Subject Name: DISASTER MANAGEMENT | | | | | | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE | |
| | Prerequisite: Nil | | | | | | 2 | 0 | 0 | 0 | Ty | |
| L:LectureT:TutorialP:ProjectR:ResearchC:Credits Ty/L:Theory/Lab | | | | | | | | | | | | |
| Objectives: Learn to demonstrate a critical understanding of key concepts in disaster risk reduction and humanitarian response. | | | | | | | | | | | | |
| COURSEOUTCOMES(COs):At the end of this course the students would be able to | | | | | | | | | | | | |
| CO1 | Evaluate disaster risk reduction and humanitarian response policy and practice from Multiple perspectives. | | | | | | | | | | | |
| CO2 | Develop an understanding of standards of humanitarian response and practical relevance in Specific types of disasters and conflict situations. | | | | | | | | | | | |
| CO3 | Understand the strengths and weaknesses of disaster management approaches, planning and programming in different countries, particularly their home country or the countries they work in. | | | | | | | | | | | |
| Mapping of Course Outcomes with Program Outcomes(POs) | | | | | | | | | | | | |
| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PSO1 | PSO2 | PSO3 |
| CO1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| H/M/L indicates Strength of Correlation 3-High,2-Medium,1-Low | | | | | | | | | | | | |
| Category | H&S | Program core | Program Elective | Open elective | Skill enhancing elective | Interdisciplinary/Allied | Skill component | Practical Project/ Internship | Others | | | |
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|-----------------------------------|--|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMAC22I02 | Subject Name: DISASTER MANAGEMENT | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 0 | 0 | Ty |

L:Lecture T:Tutorial P:Project R:Research C:Credits Ty/L:Theory/Lab

Course Objectives:- Students will be able to:

- Learn to demonstrate a critical understanding of key concepts in disaster risk reduction and humanitarian response.
- Critically evaluate disaster risk reduction and humanitarian response policy and practice from multiple perspectives.
- Develop an understanding of standards of humanitarian response and practical relevance in specific types of disasters and conflict situations.
- Critically understand the strengths and weaknesses of disaster management approaches, planning and programming in different countries, particularly their home country or the countries they work in.

Syllabus

| Units | CONTENTS | Hours |
|--------------|---|--------------|
| 1 | Introduction Disaster: Definition, Factors and Significance; Difference Between Hazard and Disaster; Natural and Manmade Disasters: Difference, Nature, Types and Magnitude. | 5 |
| 2 | Repercussions Of Disasters and Hazards: Economic Damage, Loss of Human and Animal Life, Destruction of Ecosystem. Natural Disasters: Earthquakes, Volcanisms, Cyclones, Tsunamis, Floods, Droughts and Famines, Landslides And Avalanches, Man-made disaster: Nuclear Reactor Meltdown, Industrial Accidents, Oil Slicks And Spills, Outbreaks Of Disease And Epidemics, War And Conflicts. | 5 |
| 3 | Disaster Prone Areas In India Study Of Seismic Zones; Areas Prone To Floods And Droughts, Landslides And Avalanches; Areas Prone To Cyclonic And Coastal Hazards With Special Reference To Tsunami; Post-Disaster Diseases And Epidemics | 5 |
| 4 | Disaster Preparedness And Management Preparedness: Monitoring Of Phenomena Triggering A Disaster Or Hazard; Evaluation of Risk: Application of Remote Sensing, Data From Meteorological And Other Agencies, Media Reports: Governmental And Community Preparedness. | 5 |
| 5 | Risk Assessment Disaster Risk: Concept And Elements, Disaster Risk Reduction, Global And National Disaster Risk Situation. Techniques Of Risk Assessment, Global Co-Operation In Risk Assessment And Warning, People's Participation In Risk Assessment. Strategies for Survival. | 5 |
| 6 | Disaster Mitigation Meaning, Concept And Strategies Of Disaster Mitigation, Emerging Trends In Mitigation. Structural Mitigation And Non-Structural Mitigation, Programs Of Disaster Mitigation In India. | 5 |

SUGGESTED READINGS:

1. R. Nishith, Singh AK, "Disaster Management in India: Perspectives, issues and strategies "New Royal book Company.
2. Sahni, Pardeep Et.Al. (Eds.), " Disaster Mitigation Experiences And Reflections", Prentice Hall Of India, New Delhi.
3. Goel S. L., Disaster Administration And Management Text And Case Studies", Deep & Deep Publication Pvt.Ltd., New Delhi.

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|------------------------------------|---|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMAC22I03 | Subject Name: SANSKRIT FOR TECHNICAL KNOWLEDGE | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 0 | 0 | Ty |

L: Lecture T: Tutorial P: Project R: Research C: Credits Ty/L:Theory/Lab

Objectives To get a working knowledge in illustrious Sanskrit, the scientific language in the world Learning of Sanskrit to improve brain functioning, to develop the logic in mathematics, science & other subjects enhancing the Memory power. The engineering scholars equipped with Sanskrit will be able to explore the huge knowledge from ancient literature.

COURSE OUTCOMES(COs):At the end of this course the students would be able to

| | |
|------------|--|
| CO1 | Understanding basic Sanskrit language |
| CO2 | Understanding ancient Sanskrit literature about science & technology |
| CO3 | Develop logic in students being a logical language. |

Mapping of Course Outcomes with Program Outcomes(POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PSO1 | PSO2 | PSO3 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| CO1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |

H/M/L indicates Strength of Correlation 3-High,2-Medium,1-Low

| Category | H&S | Program core | Program Elective | Open elective | Skill enhancing | Interdisciplinary/ Allied | Skill component | Practical Project/ Internship | others | | | |
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|--|---|----------|---------------|------------|----------|---------------------|
| Subject Code: HMAC22I03 | Subject Name: SANSKRIT FOR TECHNICAL KNOWLEDGE | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 0 | 0 | Ty |
| L: Lecture T: Tutorial P: Project R: Research C: Credits Ty/L:Theory/Lab | | | | | | |

Course Objectives

1. To get a working knowledge in illustrious Sanskrit, the scientific language in the world.
2. Learning of Sanskrit to improve brain functioning.
3. Learning of Sanskrit to develop the logic in mathematics, science & other subjects.
4. Enhancing the memory power.
5. The engineering scholars equipped with Sanskrit will be able to explore the huge knowledge from ancient literature.

Syllabus

| Unit | Content | Hours |
|-------------|---|--------------|
| 1 | <ul style="list-style-type: none"> • Alphabets in Sanskrit, • Past/Present/Future Tense, • Simple Sentences | 10 |
| 2 | <ul style="list-style-type: none"> • Order • Introduction of roots • Technical information about Sanskrit Literature | 10 |
| 3 | <ul style="list-style-type: none"> • Technical concepts of Engineering-Electrical, Mechanical, Architecture, Mathematics | 10 |

Suggested reading

1. "Abhyaspustakam"—Dr. Vishwas, Samskrita - Bharti Publication, New Delhi
2. "Teach Yourself Sanskrit" Prathama Deeksha - Vempati Kutumb shastri, Rashtriya Sanskrit Sansthanam, New Delhi Publication.
3. "India's Glorious Scientific Tradition" Suresh Soni, Oceanbooks (P)Ltd., New Delhi.

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|--|--|---------------------|-------------------------|----------------------|-------------------------------------|--------------------------------------|------------------------|--|---------------|-------------|--------------------------|-------------|
| Subject Code: HMAC22I04 | Subject Name :VALUE EDUCATION | | | | | | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE | |
| | Prerequisite: Nil | | | | | | 2 | 0 | 0 | 0 | Ty | |
| L: Lecture T: Tutorial P: Project R: Research C: Credits Ty/L:Theory/Lab | | | | | | | | | | | | |
| Objectives: Understand value of education and self-development, Imbibe good values in students. Let them should know about the importance of character. | | | | | | | | | | | | |
| COURSEOUTCOMES(COs):At the end of this course the students would be able to | | | | | | | | | | | | |
| CO1 | Knowledge of self-development | | | | | | | | | | | |
| CO2 | Learn the importance of Human values | | | | | | | | | | | |
| CO3 | Developing the overall personality | | | | | | | | | | | |
| Mapping of Course Outcomes with Program Outcomes(POs) | | | | | | | | | | | | |
| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PSO1 | PSO2 | PSO3 |
| CO1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| H/M/L indicates Strength of Correlation 3-High,2-Medium,1-Low | | | | | | | | | | | | |
| Category | H&S | Program core | Program Elective | Open elective | Skill enhancing elective | Interdisciplinary/Allie d | Skill component | Practical Project/ Internship | others | | | |
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|--|--------------------------------------|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMAC22I04 | Subject Name: VALUE EDUCATION | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 0 | 0 | Ty |
| L: Lecture T: Tutorial P: Project R: Research C: Credits Ty/L:Theory/Lab | | | | | | |

Course Objectives: Students will be able to

1. Understand value of education and self-development
2. Imbibe good values in students
3. Let they should know about the importance of character

Syllabus

| Unit | Content | Hours |
|-------------|--|--------------|
| 1 | <ul style="list-style-type: none"> • Values and self-development–Social values and individual attitudes. Work ethics, Indian vision of humanism. | 6 |
| | <ul style="list-style-type: none"> • Moral and non-moral valuation. Standards and principles. • Value judgments. | |
| 2 | <ul style="list-style-type: none"> • Importance of cultivation of values. • Sense of duty. Devotion, Self-reliance. Confidence, Concentration. Truthfulness, Cleanliness. • Honesty, Humanity. Power of faith, National Unity. • Patriotism. Love for nature, Discipline | 8 |
| 3 | <ul style="list-style-type: none"> • Personality and Behavior Development-Soul and Scientific attitude. Positive Thinking. Integrity and discipline. • Punctuality, Love and Kindness. • Avoid fault Thinking. • Free from anger, Dignity of labour. • Universal brotherhood and religious tolerance. • True friendship. • Happiness Vs suffering, love for truth. • Aware of self-destructive habits. • Association and Cooperation. • Doing best for saving nature | 8 |
| 4 | <ul style="list-style-type: none"> • Character and Competence – Holybooks vs Blind faith. • Self-management and Good health. • Science of reincarnation. • Equality, Nonviolence, Humility, Role of Women. • All religions and same message. • Mind your Mind, Self-control. • Honesty, Studying effectively | 8 |

Suggested reading

1. Chakroborty, S.K.“Values and Ethics for organizations Theory and practice”, Oxford University Press, New Delhi

Course outcomes: Students will be able to

1. Knowledge of self-development
2. Learn the importance of Human values
3. Developing the overall personality

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|--|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMAC22I05 | Subject Name: CONSTITUTION OF INDIA | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 0 | 0 | Ty |

L: Lecture T: Tutorial P: Project R: Research C: Credits Ty/L: Theory/Lab

Objectives Understand the premises informing the twin themes of liberty and freedom from a civil rights perspective. To address the growth of Indian opinion regarding modern Indian intellectuals' constitutional role and entitlement to civil and economic rights as well as the emergence of nationhood in the early years of Indian nationalism. To address the role of socialism in India after the commencement of the Bolshevik Revolution in 1917 and its impact on the initial drafting of the Indian Constitution.

COURSE OUTCOMES (COs): At the end of this course the students would be able to

| | |
|------------|--|
| CO1 | Understand and explain the significance of Indian Constitution as the fundamental law of the land |
| CO2 | Exercise his fundamental rights in proper sense at the same time identifies his Responsibilities in national building. |
| CO3 | Analyze the Indian political system, the powers and functions of the Union, State and Local Governments in detail |
| CO4 | Understand Electoral Process, Emergency provisions and Amendment procedure. |

Mapping of Course Outcomes with Program Outcomes (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PSO1 | PSO2 | PSO3 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| CO1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO4 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |

H/M/L indicates Strength of Correlation 3-High, 2-Medium, 1-Low

| Category | H&S | Program core | Program Elective | Open elective | Skill enhancing elective | Interdisciplinary/ Allied | Skill component | Practical Project/ | Others | | | |
|----------|-----|--------------|------------------|---------------|--------------------------|---------------------------|-----------------|--------------------|--------|---|--|--|
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|--|--|----------|---------------|------------|----------|---------------------|
| Subject Code: HMAC22I05 | Subject Name: CONSTITUTION OF INDIA | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 0 | 0 | Ty |
| L: Lecture T: Tutorial P: Project R: Research C: Credits Ty/L: Theory/Lab | | | | | | |
| Course Objectives: Students will be able to: | | | | | | |
| <ul style="list-style-type: none"> • Understand the premises informing the twin themes of liberty and freedom from a civil rights perspective. • To address the growth of Indian opinion regarding modern Indian intellectuals' constitutional role and entitlement to civil and economic rights as well as the emergence of nationhood in the early years of Indian nationalism. • To address the role of socialism in India after the commencement of the Bolshevik Revolution in 1917 and its impact on the initial drafting of the Indian Constitution. | | | | | | |
| Syllabus | | | | | | |
| Units | Content | | | | | Hours |
| 1 | History of Making of the Indian Constitution: History, Drafting Committee, Composition & (Working) | | | | | 3 |
| 2 | Philosophy of the Indian Constitution: Preamble Salient Features | | | | | 3 |
| 3 | Contours of Constitutional Rights & Duties: <ul style="list-style-type: none"> • Fundamental Rights • Right to Equality • Right to Freedom • Right against Exploitation • Right to Freedom of Religion • Cultural and Educational Rights • Right to Constitutional Remedies • Directive Principles of State Policy • Fundamental Duties. | | | | | 6 |
| 4 | Organs of Governance: <ul style="list-style-type: none"> • Parliament • Composition • Qualifications and Disqualifications • Powers and Functions Executive: • President • Governor • Council of Ministers • Judiciary, Appointment and Transfer of Judges, Qualifications • Powers and Functions | | | | | 6 |
| 5 | Local Administration: <ul style="list-style-type: none"> • District's Administration head: Role and Importance, • Municipalities: Introduction, Mayor and role of Elected Representative CEO of Municipal Corporation. • Pachayatiraj: Introduction, PRI: Zila Pachayat. • Elected officials and their roles, CEO Zila Pachayat: Position and role. • Blocklevel: Organizational Hierarchy(Different departments), • Village level: Role of Elected and Appointed officials, • Importance of grass root democracy | | | | | 6 |

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|---|---|---|
| 6 | Election Commission: <ul style="list-style-type: none">• Election Commission: Role and Functioning.• Chief Election Commissioner and Election Commissioners.• State Election Commission: Role and Functioning.• Institute and Bodies for the welfare of SC / ST / OBC and women. | 6 |
|---|---|---|

Suggested reading:

1. The Constitution of India, 1950 (Bare Act), Government Publication.
2. Dr.S.N. Busi, Dr.B.R. Ambedkar framing of Indian Constitution, 1st Edition, 2015
3. M.P.Jain, Indian Constitution Law, 7th Edn., Lexis Nexis, 2014.
4. D.D.Basu, Introduction to the Constitution of India, Lexis Nexis, 2015

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|-----------------------------------|---------------------------------------|----------|---------------|------------|----------|---------------------|
| Subject Code: HMAC22I06 | Subject Name: PEDAGOGY STUDIES | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 0 | 0 | Ty |

L: Lecture T: Tutorial P: Project R: Research C: Credits Ty/L: Theory/Lab

Objectives: Students will be able to: Review existing evidence on the review topic to inform programme design and Policy making undertaken by the DfID, other agencies and researchers. Identify critical evidence gaps to guide the development.

COURSE OUTCOMES(COs): At the end of this course the students would be able to know

| | |
|------------|--|
| CO1 | What pedagogical practices are being used by teachers informal and informal classrooms in developing countries? |
| CO2 | What is the evidence on the effectiveness of these pedagogical practices, in what conditions, And with what population of learners? |
| CO3 | How can teacher education (curriculum and practicum) and the school curriculum and Guidance materials best support effective pedagogy? |

Mapping of Course Outcomes with Program Outcomes (POs)

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PSO1 | PSO2 | PSO3 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| CO1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |

H/M/L indicates Strength of Correlation 3-High, 2-Medium, 1-Low

| Category | H&S | Program core | Program Elective | Open elective | Skill enhancing elective | Interdisciplinary/All-ied | Skill component | Practical Project/ Internship | others | | | |
|----------|-----|--------------|------------------|---------------|--------------------------|---------------------------|-----------------|-------------------------------|--------|---|--|--|
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|-----------------------------------|---------------------------------------|----------|---------------|------------|----------|---------------------|
| Subject Code: HMAC22I06 | Subject Name: PEDAGOGY STUDIES | L | T/S.Lr | P/R | C | Ty/Lb/ETP/IE |
| | Prerequisite: Nil | 2 | 0 | 0 | 0 | Ty |

L: Lecture T: Tutorial P: Project R: Research C:Credits Ty/L:Theory/Lab

Course Objectives: Students will be able to:

- Review existing evidence on the review topic to inform programme design and policy making undertaken by the DfID, other agencies and researchers.
- Identify critical evidence gaps to guide the development.

Syllabus

| Units | Content | Hours |
|--------------|--|--------------|
| 1 | <ul style="list-style-type: none"> • Introduction and Methodology: • Aims and rationale, Policy background, Conceptual framework and terminology • Theories of learning, Curriculum, Teacher education. • Conceptual framework, Research questions. • Overview of methodology and Searching. | 6 |
| 2 | <ul style="list-style-type: none"> • Thematic overview: Pedagogical practices are being used by teachers in formal and informal classrooms in developing countries. • Curriculum, Teacher education. | 6 |
| 3 | <ul style="list-style-type: none"> • Evidence on the effectiveness of pedagogical practices • Methodology for the indepth stage: quality assessment of included studies. • How can teacher education (curriculum and practicum) and the school curriculum and guidance materials best support effective pedagogy? • Theory of change. • Strength and nature of the body of evidence for effective pedagogical practices. • Pedagogic theory and pedagogical approaches. • Teachers' attitudes and beliefs and Pedagogic strategies. | 6 |
| 4 | <ul style="list-style-type: none"> • Professional development: alignment with classroom practices and follow-up support • Peer support • Support from the head teacher and the community. • Curriculum and assessment • Barriers to learning: limited resources and large class sizes | 6 |
| 5 | <ul style="list-style-type: none"> • Research gaps and future directions • Research design • Contexts • Pedagogy • Teacher education • Curriculum and assessment • Dissemination and research impact. | 6 |

Suggested reading

1. Ackers J, Hardman F (2001) Classroom interaction in Kenyan primary schools, *Compare*, 31 (2): 245-261.
2. Agrawal M (2004) Curricular reform in schools: The importance of evaluation, *Journal of Curriculum Studies*, 36 (3): 361-379.
3. Akyeampong K (2003) Teacher training in Ghana - does it count? Multi-site teacher education research project (MUSTER) country report 1. London: DFID.
4. Akyeampong K, Lussier K, Pryor J, Westbrook J (2013) Improving teaching and learning of basic maths and reading in Africa: Does teacher preparation count? *International Journal Educational Development*, 33 (3): 272-282.
5. Alexander RJ (2001) *Culture and pedagogy: International comparisons in primary education*. Oxford and Boston: Blackwell.
6. Chavan M (2003) Read India: A mass scale, rapid, 'learning to read' campaign.
7. www.pratham.org/images/resource%20working%20paper%202.pdf.

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|--|--|-----------------------------|---|---------------------|--------------------------|-----------------------|----------------------------|---------------------------------------|--------------------|--------------------------|-------------|-------------|
| Subject Code : HMAC22I07 | Subject Name : STRESS MANAGEMENT BY YOGA | | | | | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE | | |
| | Prerequisite : None | | | | | 2 | 0 | 0 | 0 | Ty | | |
| L : Lecture T : Tutorial SLr : Supervised Learning P : Project R : Research C: Credits T/L/ETL : Theory / Lab / Embedded Theory and Lab | | | | | | | | | | | | |
| OBJECTIVES : To introduce health psychology and arrive at the introduction to the philosophy and practice of yoga. | | | | | | | | | | | | |
| COURSE OUTCOMES (Cos) : (3 – 5) Students completing the course were able to | | | | | | | | | | | | |
| CO1 | Compile the models of health and the psychological component of health | | | | | | | | | | | |
| CO2 | Classify healthy behavior and health compromising behavior | | | | | | | | | | | |
| CO3 | Deduce the impact of stress on health and apply effective stress management strategies | | | | | | | | | | | |
| CO4 | Extrapolate the role of yoga in health care | | | | | | | | | | | |
| Mapping of Course Outcomes with Program Outcomes (POs) | | | | | | | | | | | | |
| COs/POs | PO 1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PSO1 | PSO2 | PSO3 |
| CO1 | 3 | 3 | | | | | | 3 | 3 | | | |
| CO2 | 3 | 3 | 2 | | | | | 3 | 3 | | | |
| CO3 | 3 | 3 | 2 | | | | 1 | 3 | 3 | | | |
| CO4 | 3 | 3 | 2 | | | | 1 | 3 | 3 | | | |
| Category | Basic Sciences | Engineering Sciences | Humanities & Social Sciences | Program core | Program Electives | Open Electives | Practical / Project | Internships / Technical Skills | Soft Skills | Audit course | | |
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|--|--|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMAC22I07 | Subject Name: STRESS MANAGEMENT BY YOGA | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: None | 2 | 0 | 0 | 0 | Ty |
| L: Lecture T:Tutorial SLr: Supervised Learning P:Project R:Research C:Credits Ty/L/ETL: Theory / Lab / Embedded Theory and Lab | | | | | | |

Unit 1 **6**

Understanding Stress: Stress and lifestyle disorders: Meaning and definition, development of stress; nature of stressors: Frustration, pressure; Factors predisposing stress: life events and daily hassles; Burnout. Coping with stress: Problem oriented and emotion oriented. Stress management: Meaning and definition; Changing thoughts, behavior and physiological responses.

Unit 2 **10**

Yoga Philosophy: Introduction to Yoga and Yogic Practices – Definition, History, Aim and Objectives, Four Paths of Yoga and Principles of Yoga, Hatha Yoga–Distinction between Yoga and Non – Yogic Practices, Concept of Yogic diet, Purpose and Utility of Asanas in Hatha Yoga, Introduction to Patanjali,

Unit 3 **14**

Yoga in Health Care: Yoga for specific lifestyle disorders: Asthma, Sleeplessness, Diabetes, Blood pressure and heart diseases. Research evidence on the impact of yoga intervention on lifestyle disorders. Halasana and Matsyasana for Thyroid, Dhanurasana and Bhujangasana for Polycystic Ovarian Syndrome Disease, Shishuasana and Adho MukhaSvanasana for Arthritis, Supta Matsyendrasana and Vrikshasana for Lower backpain, Ardha Matsyendrasana and Chakrasana for Diabetes, Apanasana and Paschimottanasana for Indigestion and Stomach Disorder, Padmasana and Sirsasana for Migraine, Baddha Konasana and Sukhasana for Depression, Balasana and Shavasana for Sleeplessness. Evaluation of the applications of psychological knowledge in the area of health and identification of gaps.

Total Periods: 30

REFERENCES

- Taylor,S.E(2006). Health Psychology. New Delhi: Tata McGraw Hill
- Serafini, E.P&Smith T.W.(2012).Health Psychology: Bio psycho social Interventions.NewDelhi: Wiley
- HathaYoga Pradipika by Swami Svatmarama.
- BKS Iyengar (2013). YOGA -The Path to Holistic Health

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|--|--|---------------------|-------------------------|----------------------|-------------------------------------|--------------------------------------|------------------------|--|---------------|-------------|--------------------------|-------------|--|
| Subject Code: HMAC22I08 | Subject Name PERSONALITY DEVELOPMENT THROUGH LIFE ENLIGHTENMENT SKILLS | | | | | | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE | | |
| | Prerequisite: Nil | | | | | | 2 | 0 | 0 | 0 | Ty | | |
| L: Lecture T: Tutorial P: Project R: Research C: Credits Ty/L: Theory/Lab | | | | | | | | | | | | | |
| Objectives To learn to achieve the highest goal happily, To become a person with stable mind, pleasing Personality and determination. To awaken wisdom in student | | | | | | | | | | | | | |
| COURSE OUTCOMES(COs): At the end of this course the students would be able to know | | | | | | | | | | | | | |
| CO1 | Study of Shrimad- Bhagwad-Geeta will help the student in developing his personality and achieve The highest goal in life | | | | | | | | | | | | |
| CO2 | The person who has studied Geeta will lead the nation and mankind to peace and prosperity | | | | | | | | | | | | |
| CO3 | Study of Neetishatakam will help in developing versatile personality of students. | | | | | | | | | | | | |
| Mapping of Course Outcomes with Program Outcomes (POs) | | | | | | | | | | | | | |
| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PSO1 | PSO2 | PSO3 | |
| CO1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | |
| CO2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | |
| CO3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | |
| H/M/L indicates Strength of Correlation H-High, M-Medium, L-Low | | | | | | | | | | | | | |
| Category | H&S | Program core | Program Elective | Open elective | Skill enhancing elective | Interdisciplinary/ Allied | Skill component | Practical Project/ Internship | others | | | | |
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|--|--|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMAC22I08 | Subject Name: PERSONALITY DEVELOPMENT THROUGH LIFE ENLIGHTENMENT SKILLS | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite:Nil | 2 | 0 | 0 | 0 | Ty |

L: Lecture T: Tutorial P: Project R: Research C: Credits Ty/L: Theory/Lab

Course Objectives

- 1.To learn to achieve the highest goal happily
- 2.To become a person with stable mind, pleasing personality and determination
- 3.To awaken wisdom in students

Syllabus

| Unit | Content | Hours |
|-------------|--|--------------|
| 1 | Neetisatakam-Holistic development of personality <ul style="list-style-type: none"> • Verses- 19,20,21,22 (wisdom) • Verses- 29,31,32 (pride & heroism) • Verses- 26,28,63,65 (virtue) • Verses- 52,53,59 (dont's) • Verses- 71,73,75,78 (do's) | 10 |
| 2 | <ul style="list-style-type: none"> • Approach to day to day work and duties. • Shrimad BhagwadGeeta : Chapter 2-Verses 41, 47,48, • Chapter 3-Verses 13, 21, 27, 35, Chapter 6-Verses 5,13,17, 23, 35, • Chapter 18-Verses 45, 46, 48. | 10 |
| 3 | <ul style="list-style-type: none"> • Statements of basic knowledge. • Shrimad BhagwadGeeta: Chapter2-Verses 56, 62, 68 • Chapter 12 -Verses 13, 14, 15, 16,17, 18 • Personality of Role model. Shrimad BhagwadGeeta: Chapter2-Verses 17, Chapter 3-Verses 36,37,42, • Chapter 4-Verses 18, 38,39 • Chapter18 - Verses 37,38,63 | 10 |

Suggested reading

- 1.“Srimad BhagavadGita” by Swami Swarupananda Advaita Ashram (Publication Department), Kolkata
- 2.Bhartrihari's Three Satakam (Niti – sringar - vairagya) by P.Gopinath, Rashtriya Sanskrit Sansthanam, New Delhi.

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|---|--|---------------------|------------|-------------------------|------------|----------------------|---------------------------------|------------|-----------------------------------|-------------|------------------------|--------------------------------------|--|---------------|
| Subject Code: HMAC22I09 | Subject Name: LIFE SKILLS | | | | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE | | | | | |
| | Prerequisite: None | | | | 2 | 0 | 0 | 0 | Ty | | | | | |
| L: Lecture T: Tutorial S.Lr: Supervised Learning P: Project R: Research C: Credits Ty/L/ETL: Theory / Lab / Embedded Theory and Lab | | | | | | | | | | | | | | |
| OBJECTIVES: | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • Understand the positive effect of being open to experiences • Be familiar with impulse control and pro social behaviour • Describe emotional intelligence, social intelligence, and integrative thinking for effective Leadership • Describe basic managerial skills. And self- management skills. | | | | | | | | | | | | | | |
| COURSE OUTCOMES (COs): (3– 5) | | | | | | | | | | | | | | |
| Students completing the course were able to | | | | | | | | | | | | | | |
| CO1 | Develop the tendency to accept self and others unconditionally | | | | | | | | | | | | | |
| CO2 | Regulate their emotional impulsivity and demonstrate prosocial behaviour | | | | | | | | | | | | | |
| CO3 | Inculcate emotional and social intelligence and integrative thinking for effective Leadership. | | | | | | | | | | | | | |
| CO4 | Demonstrate a set of practical skills such as time management, self-management, handling conflicts, and team leadership. | | | | | | | | | | | | | |
| CO5 | Create and maintain an effective and motivated team to work for the society | | | | | | | | | | | | | |
| Mapping of Course Outcomes with Program Outcomes (POs) | | | | | | | | | | | | | | |
| Cos/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PSO1 | PSO2 | PSO3 | | |
| CO1 | | | 1 | | 3 | 2 | 2 | | | | | | | |
| CO2 | | | 1 | | 3 | 2 | 1 | | 1 | | | | | |
| CO3 | | 2 | 1 | | 3 | 3 | 1 | | 2 | | | | | |
| CO4 | 2 | 2 | 1 | | 3 | 3 | 2 | | 3 | | | | | |
| CO5 | 1 | 2 | 1 | | 3 | 3 | 2 | | 2 | | | | | |
| Category | H&S | Program core | | Program Elective | | Open elective | Skill enhancing elective | | Interdisciplinary / Allied | | Skill component | Practical Project/ Internship | | others |
| | | | | | | | | | | | | √ | | |

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|---|----------------------------------|----------|---------------|------------|----------|--------------------------|
| Subject Code: HMAC22I09 | Subject Name: LIFE SKILLS | L | T/S.Lr | P/R | C | Ty/Lb/ ETP/IE |
| | Prerequisite: None | 2 | 0 | 0 | 0 | Ty |
| L: Lecture T: Tutorial SLr: Supervised Learning P: Project R: Research C: Credits Ty/L/ETL: Theory / Lab / Embedded Theory and Lab | | | | | | |

UNIT 1: 6 hrs

Openness to experience: developing the tendency to accept and appreciate self and others, the Insights, ideas, values, feelings, and behaviors, cultivate willingness to try new things as well as engage in imaginative and intellectual activities, and creative thinking“thinking outside of the box.” Skills.

UNIT 2: 6 hrs

Conscientiousness- developing the ability to regulate their impulse control in order to engage in goal-directed behaviors, managing negative emotions such as anger, worry, and sadness and Developing organized and structured approach.

UNIT 3: 6 hrs

Prosocial behavior: developing trust, altruism, kindness, affection, empathetic understanding, Sharing, comforting and cooperating, Assertiveness, emotional expressiveness and social interaction.

UNIT 4: 6 hrs

Innovative leadership Understanding: Concept of emotional and social intelligence,the persona of a leader for deriving holistic inspiration,Drawing insights for leadership, leadership qualities essential to sail through difficult situations, Importance of ethics, Ethical decision-making, Personal and professional moral codes of conduct, Creating a harmonious life.

UNIT 5: 6 hrs

Management Skills : Basic Managerial Skills - Planning for Effective Management, Organize Teams, Delegation of Tasks, Time Management,Conflict and Stress Management. Self-management Skills- Understanding Self-concept, Developing Self-awareness, Self-examination, Self-reflection and introspection, Self-regulation.

Total Periods: 30HRS

REFERENCES AND SUGGESTED READINGS

- 1) A. Pervin & O.P.John (Eds.), Hand book of personality: Theory and research (Vol.2,pp.102–138). NewYork: Guilford Press.
- 2) Harry Beilin (1982) The Development of Prosocial Behavior, Academic Press
- 3) Ashokan, M.S. 2015.Karmayogi: A Biography of E.Sreedharan. London: Penguin.
- 4) O’Toole, J.2019.The Enlightened Capitalists: Cautionary Tales of Business Pioneers Who Tried to Do Well by Doing Good. New York Harper Collins
- 5) Brown,T.2012.Change by Design. Harper Business, New, New York
- 6) Lynn A.B.2015. The Emotional Intelligence Activity Book: 50 Activities for Promoting EQ at Work, Gildan Media Corporation, New York
- 7) Kelly T., and Kelly D.2014. Creative Confidence: Unleashing the Creative Potential Within Us All. William Collins Harper Collins Publishers India
- 8) Kurien,V.,and Salve,G.2012. I Too Had a Dream.Roli Books Private Limited New Delhi