



**MANONMANIAM SUNDARANAR UNIVERSITY
TIRUNELVELI – 12**

M.SC., TEXTILES AND FASHION DESIGNING

**SYLLABUS
AFFILIATED COLLEGES
2024 – 2025 ONWARDS**

**TAMILNADU STATE COUNCIL FOR HIGHER
EDUCATION,
CHENNAI – 600 005**

TEXTILES AND FASHION DESIGNING

I. ELIGIBILITY FOR ADMISSION

B.Sc - Costume Design and Fashion, B.Sc.-Textile and Fashion Designing, B.Sc-Fashion Technology and B.Sc degree related to textile or fashion.

II. DURATION OF THE COURSE

The course for the Degree of Master of Costume Design and Fashion shall consist of two academic years divided in to four semesters. Each semester consists of 90 working days.

III. COURSE OF STUDY

The course of study shall comprise instruction in the following subjects according to the syllabus and books prescribed from time to time.

IV. EXAMINATIONS

The theory examinations will be conducted for 3 Hours by the University in the subjects prescribed for all the semesters in the month of November & April every year. The practical examinations will be conducted for 3 & 4 Hours by the University in all the subjects prescribed in the month of November & April.

At the end of the fourth semester project viva-voce will be conducted on the basis of the Dissertation/Project Report submitted by the student. The Viva-voce will be conducted by one Internal and One External Examiner.

V. SCHEME OF THE EXAMINATION

The scheme of examinations for the course is given in Annexure. All the practical examinations/ project work shall be conducted & evaluated internally by the institution themselves with internal and external examiners appointed by the University.

REGULATIONS ON LEARNING OUTCOMES-BASED CURRICULUM FRAMEWORK FOR POST GRADUATE EDUCATION	
Programme	M.Sc. TEXTILE AND FASHION DESIGNING
Programme Code	
Duration	2 years for PG
Programme Outcomes (Pos)	<p>PO1: Problem Solving Skill Apply knowledge of Management theories and Human Resource practices to solve business problems through research in Global context.</p> <p>PO2: Decision Making Skill Foster analytical and critical thinking abilities for data-based decision-making.</p> <p>PO3: Ethical Value Ability to incorporate quality, ethical and legal value-based perspectives to all organizational activities.</p> <p>PO4: Communication Skill Ability to develop communication, managerial and interpersonal skills.</p> <p>PO5: Individual and Team Leadership Skill Capability to lead themselves and the team to achieve organizational goals.</p> <p>PO6: Employability Skill Inculcate contemporary business practices to enhance employability skills in the competitive environment.</p> <p>PO7: Entrepreneurial Skill Equip with skills and competencies to become an entrepreneur.</p> <p>PO8: Contribution to Society Succeed in career endeavors and contribute significantly to society.</p> <p>PO 9 Multicultural competence</p>

	<p>Possess knowledge of the values and beliefs of multiple cultures and a global perspective.</p> <p>PO 10: Moral and ethical awareness/reasoning</p> <p>Ability to embrace moral/ethical values in conducting one's life.</p>
<p>Programme Specific Outcomes (PSOs)</p>	<p>PSO1 – Placement</p> <p>To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, beliefs and apply diverse frames of reference to decisions and actions.</p> <p>PSO 2 - Entrepreneur</p> <p>To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations.</p> <p>PSO3 – Research and Development</p> <p>Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.</p> <p>PSO4 – Contribution to Business World</p> <p>To produce employable, ethical and innovative professionals to sustain in the dynamic business world.</p> <p>PSO 5 – Contribution to the Society</p> <p>To contribute to the development of the society by collaborating with stakeholders for mutual benefit.</p>

Choice Based Credit System (CBCS), Learning Outcomes Based Curriculum Framework (LOCF) Guideline Based Credits and Hours Distribution System for all Post – Graduate Courses including Lab Hours

First Year – Semester – I

Part	List of Courses	Credits	No. of Hours
	Core – I	5	7
	Core – II	5	7
	Core – III	4	6
	Elective – I	3	5
	Elective – II	3	5
		20	30

Semester-II

Part	List of Courses	Credits	No. of Hours
	Core – IV	5	6
	Core – V	5	6
	Core – VI	4	6
	Elective – III	3	4
	Elective – IV	3	4
	Skill Enhancement Course [SEC] - I	2	4
		22	30

Second Year – Semester – III

Part	List of Courses	Credits	No. of Hours
	Core –VII	5	6
	Core –VIII	5	6
	Core –IX	5	6
	Core (Industry Module) – X	4	6
	Elective – V	3	3
	Skill Enhancement Course - II	2	3
	Internship / Industrial Activity [Credits]	2	-
		26	30

Semester-IV

Part	List of Courses	Credits	No. of Hours
	Core – XI	5	6
	Core – XII	5	6
	Project with VIVA VOCE	7	10
	Elective – VI (Industry Entrepreneurship)	3	4
	Skill Enhancement Course – III / Professional Competency Skill	2	4
	Extension Activity	1	-
		23	30

Total 91 Credits for PG Courses

Credit and Hours Distribution System for all PG courses including Lab Hours

First Year

SEMESTER-I

Part	List of Courses	Credit	Hours
Core-I	Advanced Textile Science	5	7
Core—II	Textiles and Apparel Quality Evaluation	5	7
Core-III	Advanced Garment Construction-Practical	4	6
Elective-I Discipline Centric	A)Sustainability in Textile and Fashion	3	5
	B) Design Research		
Elective-II Generic	CAD in Fashion Designing Practical (or) Fashion Sketching Practical	3	5
		20	30

SEMESTER II

Part	List of Courses	Credits	Hours	
Core-IV	Fashion Merchandising	5	6	
Core-V	Technical Textiles	5	6	
Core-VI	CAD in textile Designing Practical	4	6	
Elective-III Discipline Centric	A)Import Export Management & Documentation	3	4	
	B)Apparel Machinery Operations and Maintenance			
Elective-IV- Discipline Centric	A)Entrepreneurship Development in Textiles	3	4	
	B)Communication for Fashion Business			
Skill Enhancement Course (SEC) -I	Surface Ornamentation Practical	2	4	
	Total	22	30	

SEMESTER-I

CORE I- ADVANCED TEXTILE SCIENCE

COURSE OBJECTIVES

- To learn about the natural and man-made fibres, properties and their uses.
- To study the types of textured yarns, manufacturing of sewing threads and its types.
- Provide knowledge about the advanced technologies used to produce the fabric formation methods.

COURSE OUTCOMES

The students will be able to

- Differentiate the production process and properties of natural and man-made fibres
- Discuss the latest developments in high performance fibres
- Know the basic yarn making process and various fabric formation types like weaving, knitting and non-wovens.

UNIT-I

Natural fibers – introduction - classification of textile fibers- Properties and end uses. Recent development in natural fibres -coffee ground fibres– nettle fibres – lotus fibres – pineapple fibres , Milk fiber, sea weed and shell.

UNIT-II

High performance fibers - Glass fibers, carbon fibers, Armaid Fiber, Ceramic fibers, Chitosan fibers, Alginate fibers , bicomponent fibres, super absorbent fibres, optical fibres, melamine fibres, micro fibres – nano fibres–hollow fibres Properties and end uses .

UNIT-III

Texturization-Objects-Typesoftexturedyarns-Falsetwisttexturedmethod,Stufferbox textured method, Edge Crimping textured Method- Advantages of textured yarn -sewing Threads -Definition, Properties and Types- Manufacturing of sewing threads -Fancy yarns – Definition -classification- Slub yarns – Crimp yarns– Novelty yarns–Boucle yarns.

UNIT-IV

Weaving Process – Types of Loom- Shuttle loom- shuttle less loom - Working principle of Air Jet Loom–Working Principle of Water Jet Loom-Working principle of Projectile Loom -Working principle Rapier loom.

UNIT-V

Knitting – Classification of Knitting machines – Warp Knitting -Types, Weft knitting - Types, properties of knitted fabrics. Nonwoven-Definition and Classification. Fiber properties and Requirements. Web Formation .Dry laid, Parallel laid and cross laid formation- Application and End uses.

REFERENCES

1. Hall,A.J The standard hand book ofTextile,WoodheadPublishing8thedition,2004.
2. HearleJ.W.SHighperformancesfibers,WoodheadpublishingLtdCambridge, England,201.
3. Abinson,M.Principles of weaving.Textile Institute Manchester.
4. Corbman,B.P.Textiles Fiber to FabricMcGrawhillPublishing,6th,Edition1983.
5. Handbookoftextilefibrestructuresixeditionvolume-2woodheadpublishing In textiles.
6. Velensky, L .D, G., E.P.G Textile Science CBS Publishers and Distribution , 2003.
- 7.Sustainablefibresforfashionindustryvolume2,SubramanianSenthilKannan Muthu, Miguelangel Gardetti editors. Springer.

SEMESTER-I

CORE-II–TEXTILES AND APPAREL QUALITY EVALUATION

COURSE OBJECTIVES

- To facilitate the students for understanding the concept of apparel quality management system sand quality standards in textile industry

COURSE OUTCOMES

The student will be able to

- Setup quality control program for apparel production
- To know the importance of quality and eco–standard measures in textile industry

UNIT–I

Introduction to Quality Standards, importance of Quality, British standards and ISO Standards for the Apparel Industry. Brief study about ISO 9000 Standards and ISO 14000Standards.Total Quality management systems.

UNIT-II

Eco specification and 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, Penta chloro phenols, colour fastness, brightener's and Softening agents.

UNIT-III

Garment defects –Quality followed in cutting department –sewing department–Finishing and Packing departments.

Testing of Garments–Seam strength –Seam properties of Knitted fabrics. Bow and Skewness in woven and Knitted fabrics. Soil/Stain release testing. Testing of Sewing Threads.

UNIT-IV

Introduction to care labels – importance of care labels- Information in care labels-Care labelling symbols -Care labelling Systems- Advantages and disadvantages American, British and International Labelling. Eco-labelling-Quality and placing of care label in the garment.

UNIT-V

Quality Control and Assurance-Introduction-Quality Costs and Customer Returns-Difference between Quality Assurance and Quality Control- Inspection Procedure-Acceptance Quality Level (AQL)-Implementing Quality Control- Advanced in Quality Control- Integration of technology in quality control-Statistical Process control and control chart- Quality control in the supply chain and vendor management.

REFERENCES

1. An Introduction to Quality control for Apparel Industry by P V Mehta.
2. Apparel Quality Control by K. Sukumar, G.S. Sivakumar, S.S. MITT Staff and Students cooperative stores.
3. Management Quality in Apparel Industry by P V Mehta.
4. Physical Testing and Quality control, vol 123, No. 1/2/3 textile institute (1993).

SEMESTER I

CORE III- ADVANCED GARMENT CONSTRUCTION PRACTICALS

COURSE OBJECTIVES

- To develop skill in transforming designs to drafting.
- To understand the consumption of raw materials, costing, lay plan, construction and display techniques in garment making.
- To develop skill in evaluating design, fitting and quality defects in garment.
- To know about specific garments that society needs from apparel manufacturer.

COURSE OUTCOMES

The student will be able to

- Acquire designing, drafting, sewing skills and technique in advance garment making.
- Evaluate and problem- solving techniques in designing ,drafting, cutting, sewing, fitting and finishing in garments.
- Execute fabric programming and costing.
- Create garments that society needs for special purpose and protection.
- Become a designer, pattern master, garment technician, planning, programming and production in apparel industry.

Designing, Constructing and Evaluating Any two Garments from each

- | | |
|------------------------------|----------------------------------------------------------------------|
| 1. Children's Garment | -Frock/Middy& Middy Top/Footer Pyjamas |
| 2. Women's Garment | -Salwar kameez /Maxi/Western Gown |
| 3. Men's Garment | -Shirt/ Kurtha/ TShirt |
| 4. Special Purpose Garment 1 | -Physically challenged/Old Age People/Maternity& Lactation Period. |
| 5. Special Purpose Garment 2 | -Full protected Medical suit with hand gloves ,Mask And foot covers. |

TEXTBOOK

1. Practical clothing construction-PartI &PartII MaryMathews,cosmic Press, Chennai-1986.
2. Zarapkarsystem ofcutting,K.R.ZarapkarNavneet EducationLimited, Silvassa.
3. PracticalDressDesign,byMabelDeaneErwin,1954revisededition,MCMILLAN Company, NewYork

REFERENCES

1. <https://style2designer.com/apparel/adaptive-clothing-best-for-physically-disabled-fashion-lovers/>
2. Clothing and textiles for disabled and elderly people Harriet Meinanzer & Minna Varheenmaa VTTP rocesses.

SEMESTER I

ELECTIVE I A– SUSTAINABILITY IN TEXTILE AND FASHION

COURSE OBJECTIVES

- To understand and the importance of energy source.
- To acquire knowledge in sustainable concepts and its importance in Textile and fashion industry.
- To developed as in environmental impact and sustainability associated to fashion Industry.

COURSE OUTCOMES

The student will be able to

- Execute environmentally friendly textile manufacturing in working place.
- Improve their ability to creative ideas in research and development to make sustainable textiles.
- Manufacture sustainable textile products for all types of customer needs.

UNIT I

Introduction- Fashion, Sustainability, Pillars of sustainability. Sustainable fashion- Meaning-Importance-Need- Social, Economic and Environmental concerns related to fashion -Business models for sustainable fashion-Sustainable clothing- Sustainable consumption practices for enhanced product life. Sustainability in fashion-Benefits and challenges.

UNIT II

Recycling and up cycling- Concepts and benefits- Carbon footprint, water footprint and energy consumption of fashion industry. Sustainability in Clothing Industry -Clothing lifecycle, fast and slow fashion, clothes repair and re-use. Value and Green aesthetics- Ethical

design- Concept of Zero waste fashion design-Product service system (PSS) for sustainable fashion.Eco- friendly fashion labels.

UNIT III

Fashion and Environment –Fashions environmental impact - Water pollution, water consumption, Micro fiber pollution, Waste and disposal, chemical usage, carbon emissions, soiled gradation. Reducing environmental impact in fashion industry-buy less, buy clothes from sustainable brands, buy better quality, think before disposal, buy second hand, swap and rent clothing, cloth washing practice.

UNIT IV

Green consumerism -Meaning-Importance- green consumerism and waste reduction- Green consumer – Possible ways to becomegreenconsumer-GreenMarketingStrategies.3Rs–Reduce, Reuse and Recycle. Ways to increase the sustainability of fashion -Raise awareness, Radical Rethinking, Increase corporate and consumer responsibility, Push for alternatives, Introducing effective policy.

UNIT V

Sustainable Business Strategies- Environmentally Friendly Operation Strategies - Design for environment, environmental management systems, product stewardship programs, supply chain management, total quality management and Just-in-time. Consumer behaviors and attitudes- Media and information reliability, green clothes and information credibility.

TEXT BOOK

1. Kate Fletcher, Sustainable Fashion and Textiles, Published by Earthscan in the UK and USA in 2008, ISBN-13: 978-1-84407-463-1 Hardback ISBN-13: 978-1-84407-481-5 Paperback.

REFERENCES

1. SUSTAINABLE TEXTILES, Antonela Curteza,
www.2bfuntex.euMDT Sustainable Textiles.
2. https://books.google.co.in/books/about/Sustainability_in_the_Textile_and_Apparel

SEMESTER I

ELECTIVE- I B DESIGN RESEARCH

COURSE OBJECTIVES

- To update the students on Research design process and sourcing of design concept from primary and secondary sources of research,
- To compiling and designing by idea generation
- To effectively communicate design ideas using different techniques.

COURSE OUTCOMES

- Describe the Research design concept, primary and secondary sources of research design
- Demonstrate three dimensional approaches to research for drape and garment manipulation
- Compile the design research process and develop story board and concept board
- Combined as in the form of sketching and design drawing using collage, working
- Design from research by generating ideas and refining to a collection.

UNIT-I

Design Research what and why-Brief, Types of brief, Research and its purpose, where do you find Design research: Choosing a theme or concept, primary sources and secondary sources, sources of inspiration

UNIT-II

How to compile design research- The sketch book, drawing, collage, juxtaposition, deconstruction, cross-referencing, analysis of research, focus on key elements, Mood, story and concept board.

UNIT–III

Three dimensional approaches to research-Model and drape, fiber and fabric qualities, recycled garment manipulation

UNIT–IV

Designing from your research- Bridging the gap, Design development elements, ideas generating exercise, development and refinement of individual garments, selecting and editing ideas to form a collection.

UNIT–V

Communicating ideas- Sketching and design drawing, Templates, Collage, working drawings, art materials, layout and composition, illustration.

REFERENCES

1. BasicsFashionDesign01:ResearchandDesign,SimonSeivewright,A&CBlack,2012
2. BasicsFashionDesign04:DevelopingaCollection,ElinorRenfrew,ColinRenfrew, AVA , Publishing, 2009.
3. DoingResearchinFashionandDress:AnIntroductiontoQualitativeMethods, YuniyaKawamura,Berg, 2011 .
4. BasicsFashionDesign05:Fashion Drawing,JohnHopkins,AVAPublishing, 2009
5. FashionDesignResearch,EzinmaMbonu,LaurenceKingPublishing,2014.

SEMESTER I
ELECTIVE-II A - CAD IN FASHION DESIGNING PRACTICALS

COURSE OBJECTIVES

- To create and grade patterns for garments.
- To gain knowledge about fashion designing software's

COURSE OUTCOMES

- Skilled to become CAD designer in garment industry.

Prerequisite

Open-source software- Tuka/ ReachCAD/Gerber/ Investronica (anyone)

PART-A

**DESIGN AND DEVELOP THE PATTERN FOR THE
FOLLOWING STYLE KIDS WEAR**

- A-Line/Yoke frock
- Baba Suit
- Knickers

WOMEN'S WEAR

- Blouse
- Salwar Kameez
- Skirt and Top

WOMEN'S WEAR

- Basic Shirt
- T shirt
- Trousers

PART-B

- Grade the patterns to S, M,L, XL and estimate the lay length and

marker efficiency.

- File the pattern style and apply the grade rule.
- Estimate the lay length and marker efficiency

(OR)

ELECTIVE-II B - GENERIC FASHION SKETCHING PRACTICALS

COURSE OBJECTIVES

- To create new designs for garment through sketching
- Designing and sketching designs for home furnishing item
- Innovation towards accessories designing

COURSE OUTCOMES

- To be a good design illustrator for the trendy garments towards market

1. Illustrate a gesture components part from head to toes.
2. Create a 10 head stick figure, block figure and flesh figure and convert pose to garment like straight pose, 'S' curve, open pose "T" pose.
3. Stylized illustration in 10 head flesh figure—garments force field.
4. Create a contemporary style garment in 12 head theory.
5. Freeh and drawing techniques.
6. Model drawing by using pencil shade.
7. Still drawing using color pencil shading.
8. Develop live model drawing.
9. Draw a fashion figure in 2D and 3D form using finishing techniques.
10. Fashion accessory drawing.[any 5 items]
11. Creation of Home Furnishing items.[any 5 items]

REFERENCE BOOKS

1. Abling Bina, Fashion sketchbook, Fairchild

publishers, New York2.Seaman Julian, Professional

Fashion illustration, B.T.Batford Ltd,

London.3.IrelandPatrickJohn,Fashionillustration,B.T

.BatfordLtd,London.

4.AllenAnneSeamanJulian,FashionDrawing-
Thebasicprinciples,B.T.BatfordLtd,London.

SEMESTER-II

CORE IV – FASHION MERCHANDISING

COURSE OBJECTIVES

- To learn about the role and responsibilities of merchandiser and buyer
- To understand the structure of buying and merchandising departments
- To know the fashion merchandising, budgeting and planning

COURSE OUTCOMES

The student will be able to

- Understand the importance of merchandising in apparel industry
- Apply the merchandising skills in garment industry

UNIT-I

Introduction to Merchandising: Merchandising terminology-role and responsibilities of merchandiser - types of merchandisers- fashion merchandiser, export merchandiser, retail merchandiser and visual merchandiser.

UNIT-II

Roles of buyer and merchandiser: Rights of fashion merchandising- roles of buyer-skill set of good fashion buyer- role of fashion merchandiser - skill set of good fashion merchandiser-own label versus branded buying and merchandising-fashion buyer and merchandiser job description

UNIT-III

Organizing the buying and merchandising function: Structure of buying and merchandising departments - Assistant buyer - buying administration assistant – assistant merchandiser - allocator - buyer and the key contact - merchandiser and their key contact –meeting schedules -how buyer & merchandiser work with other activities in the value chain

UNIT-IV

Fashion Merchandising Budgeting :KPI budgeting-sales turnover budget- mark down spending budget –in take margin budgeting- stock target budgeting

Fashion Merchandising: Open to buy : What is open to buy-creating an open to buy budget -open to buy budgeting process

Fashion merchandising range planning: Introduction to range planning - range plan- optional plan- qualitative and quantitative aspects-range planning process

UNIT-V

Fashion merchandising: Sizing, deliveries and allocation: Merchandiser supplier relationship, size curves, initial locations-managing purchase orders and deliveries

Trading :Planning versus trading, repeats and cancellations ,promotional planning, end of season sale

E-retailing: E-retailing and product management, E-retailing and stock management and E- retail and drop shipping activities

REFERENCES

1. DavidShaw,T.J.MasteringFashionBuyingandMerchandisingManagement,16-Nov-2000-Business&Economics.
2. PalgraveMacmillan,J.C.FashionMerchandising,PrinciplesandPractice,28-Nov-2014- Business&Economics.

3. TataMcGraw,P.RetailMerchandising ,Hill Education ,2010.

SEMESTER-II

CORE-V

TECHNICAL TEXTILES

COURSE OBJECTIVES

- To acquaint students with the conventional and latest fibres used in technical textiles.
- To enable the students to know the various application of technical textiles.
- To understand the concept so smart and intelligent textiles.

COURSE OUTCOMES

The student will be able to

- ☐ Gain knowledge in technical textiles applications and the latest developments in fibres.
- ☐ Know many career options in various fields of technical textiles.
- ☐ Create innovative eco-friendly products in the field of technical textiles.

UNIT-I

Technical Textiles: Definition, developments in fibres used in technical textiles, Applications of technical textiles, Globalisation and Future of technical textiles industry. **Technical Fibres:** High-Strength and high- modulus organic fibres, high chemical and combustion - Resistant organic fibres, high performance in organic fibres, ultra-fine and novelty fibres.

UNIT-II

Medical Textiles: Classification – fibres Used. Non –Implantable, implantable, Extra Corporeal Devices, Health Care and Hygienic Products. **Agro Textiles**–Introduction, Fibres Used, types, functions and properties, characteristics and applications of Agro textile products.

UNIT III

Build Tech - Introduction, Fibres Used, types functions and properties characteristics and applications in Architecture and in Building Construction. **Geo textiles**– Introduction, Fibres Used, type's functions and properties characteristics and applications in its Field. **Indu Tech** –Introduction, Fibres Used, types, functions and properties, characteristics and applications–Theory of Dust Collection.

UNIT–IV

Protective Textiles: Introduction, Fibres Used, types functions and properties, characteristics and applications fire protective clothing, heat resistant garments, water proof Materials, ballistic resistant vest. Biological and Chemical Vest, Military protective Clothing. **Mobil tech Textiles** -Introduction, Fibres Used, types functions and properties, characteristics and applications of mobile tech, applications in all kinds of road transport vehicles, rail and aircrafts.

UNIT– V

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.

REFERENCES

1. Dr. V. K. Kothari, Technical Textiles, Technology, Developments and Applications ,IAFLPublications, NewDelhi, (2008).
2. H.Mattila,IntelligentTextilesandClothing,PublishingLtd,England,(2006).
3. JWSHearle,HighPerformanceFibres,WoodheadPublishingLtd,England,(2001).

4. RSenthilKumar, Textiles for Industrial Applications CRC Press (2013).
5. Sabit Adanur, Wellington Sears Handbook of Industrial Textiles CRC Press (1995).

SEMESTER-II

CORE VI –CAD IN TEXTILE DESIGNING PRACTICAL

COURSE OBJECTIVES

- To create basic and dobby weave patterns using textile CAD software
- To analyze a woven fabric, examine the fabric and plot in the interlacement mode in textile CAD

COURSE OUTCOME

- Skilled to become a CAD designer in textile designing

Prerequisite

Open source software – Weave point/ Weavelt pro/DB

weave (Anyone) Windows 7, Windows 8, Windows 10

1. Create weave patterns for the following weaves:

- Plain
- Twill–2/1 twill, 1/2 twill, 3/1 twill, 1/3 twill (2/1, 2/3 twill)
 - 3/3-pointed twill
 - 3/3 Herringbone twill
 - Combined twill weave
- Huck a back
- Honey comb-ordinary & brighter honey comb
- Mock leno

2. Create the following weave pattern based on design

- Striped pattern– pinstripe ,Bengal stripe, bar stripe, barcode stripe
 - Checked pattern – checker board, Madras checks, Tartan checks
3. Design a saree border, pallu and bodice design using **Adobe Photoshop /Adobe Illustrator software**

SEMESTER II

ELECTIVE III A–IMPORT EXPORT MANAGEMENT AND DOCUMENTATION

COURSE OBJECTIVES

- To obtain knowledge in import and export management features and procedures.
- Understanding about the benefits and supports provided by Government of India.
- To be familiar with approvals and assistance provided by Government institutes.
- Familiar about Documents need for shipment.

COURSE OUTCOMES

The students will be able to

- Become Familiar in import and export trade policy.
- Gain Knowledge in export and import procedure and documentation
- Know the way for getting finance assistance for export and import from government organization.
- Workout import and export shipment documents.

UNIT I

Import Export Management Introduction; Concept Key Feature; Foreign Trade-Institutional Frame work and Basics; Trade Policy; Foreign Trade-Simplification of Document; Reduction in Document to Five for Custom Purpose – Exporting and Importing Counter Trade- Promise and Pit fall of Exporting; Improving Export Performance – Counter Trade.

UNIT II

Export Procedures - Preparation for exports: Registration of firms with authorities, PAN No., IE code, BIN No., EPC, Central Excise etc.,- Category of exports: Direct, indirect, third party exports.- Category of Exporters: Manufacturer exporter, merchant exporter, EOU/SEZ/- Five types of Export Houses-Export benefits: Duty drawback, advance authorization scheme, duty free import authorization, duty exemption entitlement scheme, EPCG, duty entitlement pass book scheme, market development assistance - GSP and GST Rules as per the FT policy.

UNIT III

Import Procedures – Import management, procurement planning, and project imports regn.-Identification, selection of suppliers- Purchase contract, terms of payments-Terms of Delivery Inco terms- Import policy ITC HS- Role of a customs house agent and freight forward agents-Type of customs duties, valuation rules- Complete documentation and procedures for import clearance at sea port- Customs clearance of imports by sea and air documents, procedures. Etc.-Imports under various imports notification issued by customs.

UNIT IV

Export Assistance of India: Introduction, Importance of Export Assistance, Export Promotion Measure in India- Expansion of Production Base for Exports; Relaxation in Industrial Licensing Policy /MRT/ FER/ Foreign Collaborations; Liberal Import of Capital Goods; EPZ/EOU-Assured Supply of Raw-Material Imports- Eligibility for Export/ Trading/ Star Trading/ Super Star Trading Houses- Export Houses Status for Export of Services- Rendering Exports Price Competitive; Fiscal Incentives; Financial Incentives; Strengthening Export Marketing Effort.

UNIT V

Export documentation –Introduction and various types of export documents– Pre- shipment and Post-shipment documents – Pre-Shipment and Post- Shipment finance. Conditions in LC for stipulated documents legalization shipping

consignment certificates. Export duty draw back– pass book – capital goods import license and assistance. Types of bill of lading.

TEXTBOOKS

1. Export import procedures, C.Ramagopal, New Age International (P) Limited, Publishers New Delhi.
2. EXPORT/IMPORT PROCEDURES and DOCUMENTATION, Thomas E. Johnson and Donna L. Bade, American Management Association, New York.
3. Foreign Trade Theory, Procedures, Practices and Documentation, Dr. Khushpat S. Jain, Himalaya Publishing House Pvt. Ltd, New Delhi.
4. Export-Import Theory, Practices and Procedures, Belay Seyoum, PhD, SECOND EDITION, Routledge, New York.

REFERENCES

1. Export Import Policy, Publisher: Ministry of Commerce, Government of India, New Delhi.
2. Electronic Commerce by N. Janardhan, Publisher: Indian Institute of Foreign Trade, New Delhi.
3. Nabhi's New Import Export Policy, Publisher : Nabhi Publication, New Delhi.
4. Export-What, Where, How by Ram Paras, Publisher: Anupam, Delhi.
5. Import Export Management, EIILM University, Sikkim.

SEMESTER – II

ELECTIVE III B - APPAREL MACHINERY OPERATIONS AND MAINTENANCE

COURSE OBJECTIVES

- ❖ To enable students to learn about evolution and types of sewing machineries.
- ❖ To study different types of basic sewing machines.
- ❖ To impart the students to understand the concepts of garment quality in stitching operations.
- ❖ To acquaint students about the importance of In-line inspection.
- ❖ To understand care and maintenance of sewing machines.

COURSE OUT COMES

- ❖ **Evolution and type of sewing machineries**
- ❖ **Types of basic sewing machines**
- ❖ **Analyzation of garment quality in stiting operations**
- ❖ **Application of inspection techniques for in – line operations**
- ❖ **Evaluation of maintenance of sewing machines**

Unit I

Introduction to Sewing Machines

Introduction- Evolution of the sewing machine- Types of sewing machines- Mechanical, Electrical and Computerized sewing machines. Categories of sewing machine - Domestic and Industrial sewing machines –characteristics and features.

Unit-II

Sewing Machines

Classification of sewing machines-General sewing machines and sewing machines based on technical characteristics. General- sewing machines, Special sewing machines, sewing automata, sewing systems, Numerical controlled, robotic sewing machines. Technical -stitch type, sewing needle, feed mechanism, bed type- Characteristics and features- working principle -precautions. Advanced sewing machines in industry- sewing machine brands.

Unit-III

Garment quality in Stitching Operations

Garment quality -factors contributing quality product-raw material quality, accessories, cutting quality, Inspection procedure in sewing department, machine and sewing quality, Washing and finishing quality.

Functions of quality assurance in sewing department - Role and responsibility of Quality assurance manager
 Standard quality levels Fault free fabric, Good stitching and seam formation, Machine conditions, needle size, and thread, trims and fasteners -Job card meaning - Importance of job card or work ticket- job card specification -garment components, stitch specification.

Unit-IV

In-line Inspection

In-line inspection – Meaning - Format of inline checking - checking at check points, Roving quality checking, Traffic light System, inspection by buyer. Types of in-line inspection -Purpose- In-line Inspection report – Defect list- Defect classification zones - Most noticeable, Average noticeable, least noticeable. Specifications of quality department - Swatch cards, specification sheet, trim cards.

Unit-V

Care and Maintenance

Cleaning and Maintenance of tools - Cleaning and oiling of sewing machines- Handling of sewing machines -Safe and correct procedure of handling equipment and machinery - Clothing and Personal Protection, Clear demarcations and sign boards, Compliance towards – Noise Protection, Cleanliness and maintenance, Reporting an Accident, Essential facilities required at the workplace- Potential hazards risks and threats based on nature of operations.

TEXTBOOKS:

1. Harold Carr and Barbara Latham, The Technology of Clothing Manufacturing, Om Book Service, New Delhi, 2010.
2. Dudeja, V.D., Professional Management of Fashion Industry, Gangandee Publication, New Delhi, 2005.

Reference Book:

1. Gerry Cooklin, Garment Technology for Fashion Designers, Black Well Science Ltd., Oxford, 2005.
2. Betsy hose good, The Complete Book of Sewing, Dorling Kindersley Limited,London, 2006
3. Karthik T., Ganesan P., Gopalakrishnan, D, Apparel Manufacturing Technology, CRC Press, U.S., 2016.
4. Debbie Colgrove, Sewing, Wiley Publishing, Inc., Hoboken, New Jersey, 2006.

SEMESTER II

ELECTIVE IVA - ENTREPRENEURSHIP DEVELOPMENT IN TEXTILES

COURSE OBJECTIVES

- To learn about the entrepreneurial skills involved in Apparel industry.
- To know the financial supporting sectors for starting new business

COURSE OUTCOMES

The students will be able to

- Apply knowledge while starting a new business
- Become aware of the tax regulations, patent rules and exemptions

UNIT I

Entrepreneurship: Meaning – Analysis – Types and Functions –Growth of entrepreneurs in India – Influence of Environmental Factors – Help in EDP – training and development of entrepreneur. Entrepreneurship development programme –role of entrepreneurs in development of apparel and fashion industry, entrepreneurship with reference to fashion and apparel industry in India.

UNIT II

Business planning–starting a new venture related to apparel industry, essentials of a successful center. Formalities involved in starting up of a firm. Ownership details – individual proprietor / partnership / PVT. Limited company and public Ltd Company, bank formalities, term loan, working capital, project financing.

UNIT III

Location and plant layout – factors influencing plant location, building structure, lighting, ventilation, material handling, availability of labor, material management and transportation. Plant layout, ergonomics safety and security to be considered while planning the layout.

UNIT IV

Role of support institutions and management of small business: Director of industries – DIC, SIDCO, SIDBI, SIDC, SISI, NSIC, NISBUD, State Financial Corporation Sic, Financial assistance by central government through MSME scheme, PMYK scheme, MUTHRA Scheme in detail. Subsidy schemes supporting for apparel industry by AEPC, ATDCPEDEXCIL, Marketing Management, Production Management, Finance Management, Human resource Management, Export Marketing,

UNIT V

Industrial Sickness and remedies, tax planning, GST, patent rules, factory ACT, minimum wages, knowledge of exemptions and deductions, Environmental considerations and social responsibilities

REFERENCEBOOKS

1. Desai Vasani, Small scale industries and entrepreneurship, Himalaya Publishing House, Delhi, 2003.
2. Kaul Aruna, Entrepreneurship management, Vikas Publishing House, Delhi, 2003.
3. Cynthia L. Greene, Entrepreneurship ideas in Action, Thomson Asia PVT Limited, 2004.
4. David Otes, A guide to Entrepreneurship, Jaico Books Publishing House, Delhi, 2004.

SEMESTER – II

ELECTIVE IV B- COMMUNICATION FOR FASHION BUSINESS

COURSE OBJECTIVES

- ❖ To study about communication process
- ❖ To understand about the importance of listening
- ❖ To learn about the business correspondence and presentation skills
- ❖ To study the business communication techniques

COURSE OUT COMES

- ❖ Business communication and its process
- ❖ Significance of active and poor listening
- ❖ Application of presentation skills
- ❖ Analyze the principles of business correspondence
- ❖ Application of business communication skills for letter correspondence.

Unit I

Communication

Communication- meaning, Importance and purpose, role of communication in business, main forms of communication business. Types of Communication-Forms of Communication.-Verbal and non- verbal communications - Technology and Business Communication, Communication in Management, effective communication at workplace – Barriers. Corporate communication

Unit-II

Listening

Listening-Definition-Listening Process-Types-Superficial, Appreciative, Focused, Attentive Evaluative, Empathetic-Barriers- Traits of a good Listener, factors contributing to poor listening, Active listening.

Technical Writing-Importance, Characteristics. Report writing- objectives and types.

Business proposals-definition, types. Note making and writing technique.

Unit-III

Meetings, Presentation skills

Meetings – Types, Characteristics, Conducting Meetings, Effective meeting, communicating through Visuals.

Presentation skills- Definition, Importance, features of a good presentation, components of presentation skills-Planning effective presentation- -Analyze the audience, Structure, verbal delivery, Body language and movement, form of language, equipment's and facilities, verbal and nonverbal, Interacting with audience and managing questions, Rehearsal - Network Etiquette

Unit-IV

Business Correspondence

Business Correspondence -Meaning and significance-Principles-Essentials of Business letters-introduction, format and layout -E-mail- report writing,-writing skills - Elements of business letter- Formats - Types of business letter-Internal, External, Routine, Sales, Personalized, Circulars.

Unit-V

Letter Correspondence

Letter Correspondence- Introduction, Objectives- - Requirement correspondence definition, application letter, contact of resume and CV, interview letter, offer of employment, letter of acceptance, resignation letter, letter of recommendation.

TEXTBOOKS

R.C Bhatia, Business communication, Ane's books Pvt Ltd, New Delhi, 2009

1. Krishna Mohan and Meera Banerji, Develop communication skill, Trinity press:

Lakshmi publication Chennai, 2016.

2. Mary Ellen Guffey, Essentials of communication, south – western collage

Publication Association for business communication, 2018.

3. Pooja Khanna, Business Communications, Vikas Publishing House Pvt .Ltd..Noic

SKILL ENHANCEMENT COURSE I

SURFACE ORNAMENTATION PRACTICAL

COURSE OBJECTIVE

- ❖ To acquaint students with the knowledge on application of Embellishments on fabric surface.
- ❖ To enrich garments using dyeing
- ❖ To impart the knowledge and skills required to design fabrics and garments using printing and painting
- ❖ To design garments through proper selection of embroidery stitches

COURSE OUTCOMES

- ❖ Designing garments with surface decoration
- ❖ Application of dyeing techniques on garments
- ❖ Garment designing using printing and painting
- ❖ Evaluate samples produced using embroidery
- ❖ Create designs using garment accessories

PART – A

Develop designs on garments for surface enrichment of neckline/waistline/sleeves/bottom hem line/collars/plackets/around buttons or button hole/arm line/pockets using the below embellishment techniques.

PART – B

Design and develop any two children, Women's and men's garments suitable for designing and application of ornamentation techniques.

1. Dyeing - Tie and dye/ Batik
2. Printing – Block/Screen/Stencil
3. Painting
4. Embroidery -Hand/Machine
5. Smocking
6. Lace
7. Appliqué
8. Studs/Beads/sequins/mirror/stone
9. Accessories-Buttons/elastic/cords/tapes/buckles

TEXTBOOK

1. Lucinda Ganderton, Dorothy Wood, The Ultimate Book of Quilting Cross Stitch, Needle craft, Annes Publishing Ltd., London, 2005.

REFERENCES

1. MunniSrivatsava and Bats for, Embroidery Techniques from East & West, London, 2005.
2. Nancy Ziemon, Machine Embroidery with confidence – A beginner's guide Krause Publications, West Indies, 2005.
3. Margo Singer, Textile Surface Decoration- Silk and Velvet, Textile handbook, A&C Black Publishers, Great Britain, 2007.