

VIVEKANANDHA

COLLEGE OF ARTS AND SCIENCES FOR WOMEN (AUTONOMOUS)

ISO 9001: 2015 | NAAC 'A+' | 2 (f) & 12 (B) | Affiliated to Periyar University | Approved by AICTE
Tiruchengode - 637 205, Namakkal (Dt.), Tamil Nadu.
www.vicas.org

DEPARTMENT OF COSTUME DESIGN AND FASHION



M.Sc. (COSTUME DESIGN AND FASHION) PROGRAMME CODE: PCDF

UNDER AUTONOMOUS OUTCOME BASED AND TANSCHÉ SYLLABUS

FOR CANDIDATES ADMITTED FROM (2023 - 2024)

**VIVEKANANDHA EDUCATIONAL INSTITUTIONS
ANGAMMAL EDUCATIONAL TRUST**

INTRODUCTION

Outcome Based Education is incorporated into the curriculum based on the requirements of TANSICHE/ NAAC – UGC-Quality Mandate. To fulfill these requirements, the Program Educational Objectives (PEO's), Program Outcomes (POs) and Program Specific Outcomes (PSOs) and Course Outcomes were framed for all programs in alignment with the Vision and Mission of the respective departments and in-turn with the Vision and Mission and Educational Objectives of the Autonomous college.

VISION OF THE COLLEGE

- To empower women by imparting Quality Education, Skill Development and Value.
- Based Education and to make them self- reliant, competent and socially responsible.

MISSION OF THE COLLEGE

- To impart higher education to Women Students from rural areas.
- To provide the student community with holistic learning opportunity.
- To provide an atmosphere with academic excellence to equip the women students with ethical values and technical knowledge.
- To endow an amicable ambience with all the resources to develop personality, employability, entrepreneurship and globally competent.

VISION OF THE DEPARTMENT

- To provide a highest standard in fashion pertaining to design, technology and management with proper level of discipline.
- To encourage creativity among student's body.
- To draw inspiration from India's textiles and crafts focusing on emerging global trends relevant to the industry.

MISSION OF THE DEPARTMENT

- To provide a transformative educational environment for talented young women to nurture their inventive potential.
- To acquire distinctive skills valuable to self, industry and society.

- To value and celebrate cultural and individual diversity in our students, faculty and alumni emphasizing the power of fellowship.
- To bring forth graduates to exact standards of professional excellence and personal integrity.

PREAMBLE

The present curriculum of M.Sc., Costume Design and Fashion is designed to impart knowledge and skills that is career oriented. It has special relevance to fashion, textile and marketing in industries with additional knowledge and experience in entrepreneurship skills, field work, industrial visit, Portfolio Presentation, marketing and hard skill in textile and fashion industry.

ELIGIBILITY NORMS FOR ADMISSION

Candidates who have qualified in B.Sc. Costume Design and Fashion/Textiles and Apparel Design/Textiles and Fashion Design/Fashion Design/ Textiles and Clothing or any B.Sc./ B.Voc. Degree related to Textiles/Apparel/Costume/Fashion disciplines are eligible to register for the Degree of Master of Science.

DURATION OF THE COURSE

The Programme shall extend through a period of 4 consecutive semesters and the duration of a semester shall normally be 90 days or 450 hours. Examinations shall be conducted at the end of each semester for the respective subjects.

MEDIUM OF INSTRUCTION

English

EVALUATION

Evaluation of the candidates shall be through Internal and External Examinations. The ratio of formative and summative assessment should be 25:75 for both Core and Elective papers.

ABOUT THE PROGRAMME

The PG Programme in Costume Design and Fashion aims to promote students to

become competent professionals in the area of Textile, Clothing and Fashion Design. The Programme enhances the students' skill by providing valuable insights into apparel designing, clothing psychology, garment production techniques, apparel quality standards, textile testing, eco-friendly textile processing, textile finishing and technical textiles. The Programme is structured to provide knowledge on scientific, technological and management concepts to face the challenges of textiles industry and to promote self-employment. The students are upgraded with critical thinking and problem-solving skills for management of Textile industry as employees as well as entrepreneurs.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

PEOs	OBJECTIVES
PEO1	To provide experience in advance textile fabrication techniques
PEO2	To enable the learners to apply environment friendly techniques in textile production and finishing
PEO3	To motivate the learners to apply knowledge in textile testing and quality control methods
PEO4	To instill knowledge to introduce sustainable practices in textile and apparel industry
PEO5	To cultivate entrepreneurial skills in textile and fashion domains.

PROGRAMME OUTCOMES (POS)

POs	On completion of M.Sc. Program, the students will be able to,
PO1	Have complete knowledge in the field of Textiles and Clothing
PO2	Apply their professional knowledge and their research ideas for developing innovative fashion trends and creative products.
PO3	Acquire dexterity for self-development and competency
PO4	Understand current scenario of fashion and apparel design and adapt themselves to the changes in global fashion and commercial market.
PO5	Understand business relations and apply technical and computer knowledge, statistical analytical skills, soft skills, confidence, ethics and moral values.
PO6	Get qualified for industrial needs and start up units by providing professional skills
PO7	Explore research interest with creative skills towards sustainable environment practices.

PROGRAMME SPECIFIC OUTCOMES (PSOS)

POs	On completion of M.Sc. Program, the students will be able to,
PO1	Acquire research knowledge in Textile, Apparel and Fashion production techniques
PO2	Gain expertise in areas of fashion and design as to adopt current and future trends
PO3	Acquire entrepreneurial skills in the field of textiles, apparel and fashion
PO4	Excel in the area of computer and soft skills as per industrial needs and start-ups.
PO5	Acquire dexterity in the field of textile, clothing and fashion for employability

Internship/ Industrial Activity

- The students should undergo internship/ Industrial Activity at least for a minimum of 15 days after II Semester Examinations.

Case Study\Project

- A systematic investigation to be made about the industrial problems and report to be submitted. The evaluation to be done based on viva voce and presentation

Extension Activity

- The students should be insisted to involve in extension activity for a minimum of 15 hours and should report the activity to the Department.

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SCHEME OF CURRICULUM M.SC. COSTUME DESIGN AND FASHION
(For the students admitted during the academic year 2023 -2024)

Subject Status	Subject Code	Subject Title	Credit	Hours/Week		Maximum Marks		
				Theory	Practical	CIA	ESE	Total
SEMESTER - I								
Core - I	23P1CDC01	Indian Textile and Apparel Industry	5	7	-	25	75	100
Core - II	23P1CDC02	Technical Textiles	5	7	-	25	75	100
Core Practical - I	23P1CDCP01	Advanced Pattern Making Practical	4	-	6	40	60	100
Elective –I (Discipline Specific)	23P1CDDEP1	a. Fashion Illustration Practical	3	5	-	40	60	100
	23P1CDDEP2	b. Design Art and Painting Practical						
Elective –II (Generic)	23P1CDGEP1	a. Beauty Care Practical	3	5	-	40	60	100
	23P1CDGEP2	b. Surface Ornamentation Practical						
Total			20	30				

Subject Status	Subject Code	Subject Title	Credit	Hours/Week		Maximum Marks		
				Theory	Practical	CIA	ESE	Total
SEMESTER - II								
Core - III	23P2CDC03	Eco Textiles and Sustainability	5	6	-	25	75	100
Core - IV	23P2CDC04	Textile Testing	5	6	-	25	75	100
Core Practical - II	23P2CDCP02	Textiles and Apparel Testing - Practical	4	-	6	40	60	100
Elective –III (Discipline Specific)	23P2CDDEP3	Design collection Practical	3	-	4	40	60	100
	23P2CDDEP4	Ornaments and Accessories Practical						
Elective – IV (Generic)	23P2CDGE01	Communication for Fashion Business	3	4	-	25	75	100
	23P2CDGE02	Home Textile						
Skill Enhancement Course -I	23P2CDSE01	Advanced Garment Construction Practical	2	4	-	40	60	100
Total			22	30				

Subject Status	Subject Code	Subject Title	Credit	Hours/Week		Maximum Marks		
				Theory	Practical	CIA	ESE	Total
SEMESTER - III								
Core - V	23P3CDC05	Research Methodology and Statistics	5	6	-	25	75	100
Core - VI	23P3CDC06	Textiles and Apparel Quality Standards	5	6	-	25	75	100
Core Practical - III	23P3CDCP03	Eco Textile Processing Practical	4	-	6	40	60	100
Core- VII		Case study (Industry Module)	4	-	6			
Elective – V (Discipline Specific)	23P3CDDE01	Supply chain management	3	4	-	40	60	100
	23P3CDDE02	Apparel production planning						
Skill Enhancement Course - II	23P3CDSEP2	CAD for Fashion Digital Communication - Practical	2	4	-	40	60	100
		Internship/Industrial Activity	2					
Total			25	30				

Subject Status	Subject Code	Subject Title	Credit	Hours/Week		Maximum Marks		
				Theory	Practical	CIA	ESE	Total
SEMESTER - IV								
Core - VIII	23P4CDC08	Apparel Production Technology	5	6	-	25	75	100
Core Practical - IV	23P4CDCP04	Portfolio presentation Practical -Manual/Digital	5	6	-	25	75	100
Core - IX	23P4CDC04P	Project with Viva Voce	7	-	6	40	60	100
Core		Case study (Industry Module)	4	6	-	-	-	-
Elective – VI (Discipline Specific)	23P4CDDEP5	Draping, Drafting, construction and fit analysis Practical	3	-	4	40	60	100
	23P4CDDEP6	Innovative Product Development Practical						
Skill Enhancement Course - III	23P4CDSE03	Professional Competency Skill	2	4	-	40	60	100
		Extension Activities	1	-	-	-	-	-
Total			27	30				

SEMESTER - I

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Course code: 23P1CDC01	INDIAN TEXTILE AND APPAREL INDUSTRY	L	T	P	C
Core Course - I		7	-	-	5
Prerequisite	Basic knowledge in Indian Textile and Apparel Industry	Syllabus Version		2023-2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Learn about the recent advancements of Indian Textile and Apparel Industry, Notable Research accomplishments, 2. Understand the position of textile Clusters in India 3. Understand the trends in E-Commerce of textile and apparel business 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Interpret the Current Statistics of cotton, sericulture, jute, woollen, manmade & filament yarn with reference to production and consumption of fibers, yarns and fabrics				K2
CO2	Review the Non-Woven Product developments and market potential in India				K2
CO3	Identify the major initiatives taken by the clusters for the growth of the Industry				K2
CO4	Demonstrate the registration process as a vendor in e-com website.				K3
CO5	Compare the performance of exports and domestic market of Textiles & Clothing sector.				K4
CO6	Summarize the export opportunities of cotton, sericulture, jute, woollen, manmade & filament yarn Industries and Textiles & Clothing industry.				K5
K2 - Understand; K3 - Apply; K4 - Analyze; K5 – Evaluate					

Unit I Outlook of Indian Textile & Apparel Industry

Overview and Growth of Indian Textile Industry, Current position of textile industry in India, Vision India, Structure of Indian textile industry, India's major competitors in the world, challenges faced by textile industry in India, Latest government policies and schemes for promoting textile industry in India.

Unit II Recent Progresses of Cotton and Sericulture Industry

Cotton Textile Industry: Overview of cotton industry in India, key markets and export destinations, Production, Area and Productivity, Cotton consumption, Cotton Trade, cotton prices, Major cotton producing countries. Sericulture Industry: Introduction, world silk production, Production and consumption of raw silk, performance of sericulture sector, Research and Development.

Unit III Recent Progresses of Jute and Woollen Industry

Jute Industry: Raw jute scenario, production of raw jute goods, Domestic consumption

of jute goods, Export performance, Import of Raw jute and jute goods, Regulatory organizations in jute sector, major areas of Research in jute sector, Application of jute in technical textiles. Woollen Industry: Production and consumption, wool producing states, Import and export of wool, Research and development.

Unit IV Recent Progresses of Manmade & filament yarn and Textiles & Clothing Industry. Emerging trends in E-commerce of textile and Apparel Business

Manmade and Filament Yarn Industry: Production, Import and Export, growth.

Textiles and Clothing industry: Recent import scenario and export performance of Textiles and Ready-Made Garments (Woven and Knits)

Emerging Trends in E-Commerce of textile and apparel business, Vendor, how to register as a vendor, how to build own e-com website.

Unit V Recent Progresses of Non-Woven Industry, Research Associations & Clusters

Textile Research Associations: ATIRA, BTRA, SITRA, NITRA, MANTRA, SASMIRA, IJIRA, WRA

Nonwoven: Recent Development in India, Global Consumption of Non-woven, Market Potential in India, Growth Drivers of Non-woven and Market Overview. Clusters: Definition, Cluster Concept, Policy framework for clusters in India, Mega Handloom Clusters, Power loom mega clusters, Tirupur Knitwear Clusters, Ludhiana Knitwear and Apparel Clusters and Karur clusters

REFERENCES

1. India's Textile and Apparel Industry: Growth Potential and Trade and Investment Opportunities, Sundar Shetty, U.S. International Trade Commission.2001
2. An Introduction to Sericulture, 2/E, Ganga and J.sulochanachetty, Oxford and IBH Publishing, 1997
3. The Textile Industry in India: Changing Trends and Employment Challenges, Bindu Oberoi, Oxford University Press,2016
4. Trends in E-Business, E-Services, and E-Commerce: Impact of Technology on Goods, Services, and Business Transactions: Impact of Technology on Goods, Services, and Business Transactions Lee, In IGI Global, 30-Sep-2013
5. The Complete Book on Textile Processing and Silk Reeling Technology: H. Panda Asia Pacific Business Press Inc., Delhi 2010
6. Textile Industry of India and Pakistan Milan Sharma APH Publishing, 2006
7. Ministry of Textiles: texmin.nic.in
8. Fibre2Fashion - Textile Magazine - August 2017 Fibre2Fashion, 01-Aug-2017
9. Advances in Filament Yarn Spinning of Textiles and Polymers. Dong Zhang Elsevier, 15-Feb-2014

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Course code - 23P1CDC02	TECHNICAL TEXTILES	L	T	P	C
Core Course - II		7	-	-	5
Prerequisite	Knowledge about the Technical Textiles	Syllabus Version		2023-2024	
Course Objectives					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Learn about fibres and methods used for the production of Technical Textiles 2. Learn in detail about the classifications of Technical Textiles 3. Learn about the application of the Technical Textiles in various fields 4. Study the concept and uses of technical textiles 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Recall the scope of Technical Textiles and its Applications in various fields				K1
CO2	Discuss the fibres and fabrics used in various applications of technical textiles and the products with their uses.				K2
CO3	Differentiate the fibres and fabrics that are suitable for Heat and flame protection and Survival textiles				K4
CO4	Compare the Conventional and Non-conventional fibres used in technical textiles.				K4
CO5	Compare the performance of various waterproof breathable fabrics like densely woven fabrics, membranes and coatings				K4

K1 - Remember; K2 - Understand; K4 – Analyze

Unit: I Technical Textiles

Introduction, definition, Applications and scope of Technical Textiles. Milestones and developments of technical textiles.

Technical Fibers: High – Strength and high-modulus organic fibers, High chemical and combustion - resistant organic fibers, High performance inorganic fibers, Ultra-fine and novelty fibers.

Unit: II Medical Textiles and Agro Textiles

Medical Textiles: Introduction, Fibers used, Properties, Classification- Non – Implantable, Implantable, Health care /Hygiene Products and Applications. Wearable assistants for mobile health monitoring. Recent trends in Medical Textiles.

Agro Textiles – - Introduction, fibers used in agro textiles, Types, functions and properties, role of nonwoven in agro textiles, Applications of in agro Textiles and their uses.

Unit: III Build Tech and Geo Textiles

Build Tech: - Introduction, fibers used Types, functions and properties, Characteristics and Applications in Architecture and in Building Construction. Recent Advancement in Build Tech.

Geo textiles: - Introduction, fibers used in geo textiles, functions and properties of ego textiles. Recent developments in Geo Textiles.

Unit: IV Protective Textiles, InduTech and Home Textiles

Protective Textiles: Introduction, fibers used, functions and properties, textiles for protection- Fire Protective clothing, Heat resistant garments, Water proof materials, Ballistic resistant garments, Biological and chemical protection vests, Military Protective clothing. Recent developments in protective textiles.

InduTech - Introduction, fibers used - types, functions and properties. Applications and latest trends in its field.

Home Textiles - Introduction, fibers used, types, functions and Applications of home textiles.

Unit: V Sports Textiles, Smart and Intelligent Textiles

Sports Textiles: Introduction, fibers used, Types, functions, Applications of Sports Tech. Latest trends in Sports Tech.

Smart and Intelligent Textiles – Classification - Active smart, passive smart and ultra-smart textiles and their applications- Phase change materials, shape memory polymers, chromic and conductive Materials and its applications in various Wearable technology. Latest trends in smart and intelligent textiles.

REFERENCES

1. Hand book of Technical textiles, A. R. Horrocks and S. C. Anand, Wood head publishing ltd, England, 2000
2. Technical Textiles and its Application , Dr.S.Grace Annapoorani, LASER Park Publishing House, India, 2017
3. Textiles for Industrial Applications, R Senthil Kumar, CRC Press, 2013
4. Textile Fibers: Developments and Innovations, Kothari, V., New Delhi: IAFL Publications, 2000.
5. Handbook of Industrial Textiles, Sabit Adanur, Wellington Sears CRC Press ,1995

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Course Code – 23P1CDCP01	ADVANCED PATTERN MAKING PRACTICAL	L	T	P	C
Core Practical - I		-	-	6	4
Prerequisite	Knowledge about the Pattern Making	Syllabus Version		2023-2024	
Course Objectives					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. To study about pattern making 2. To understand about the pattern making techniques 3. To learn about the pattern manipulation techniques 4. To study the flat pattern techniques 5. To develop pattern for creative designs 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Apply the concepts of pattern making				K3
CO2	Analyze pattern making techniques				K4
CO3	Application of pattern manipulation techniques				K3
CO4	Relate the process flat pattern techniques for pattern modification				K4
CO5	Modify and develop patterns for creative designs				K6

K3: Apply, K4: Analyze, K6: Create

I. Develop creative patterns using following pattern making techniques and principles

- ❖ Sketch the basic/original design and modified /creative design for pattern development
 - ❖ Select a garment, list the measurements required, develop drafting instructions and draft the basic/original pattern.
 - ❖ Apply drafting principles on original pattern, modify the basic pattern for new/creative design
 - ❖ Present the original pattern and modified /creative pattern with their respective designs.
 - ❖ Check the original pattern and modified /creative pattern for the same measurements.
 - ❖ Construct one garment using any one of the basic and creative patterns.
1. Draft a basic pattern (any garment components /garments) and apply dart manipulation technique to shift darts from one location to another location to create designs.
 2. Draft a basic pattern (any children garments) and apply Flat pattern techniques to add fullness at top and bottom edges of the garment to create designs.

3. Draft a basic pattern (any women's garment) and apply Flat pattern techniques to convert darts into seams of the garment.
4. Draft a basic pattern (any women's /Men's garment) and apply Flat pattern techniques to convert darts into seams forming yokes of the garment.
5. Draft a basic pattern (any garment components /garments) and apply pattern alternations methods to increase and decrease the fullness from the original size of basic pattern.

REFERENCES

1. Suzanne G. Marshall, Hazel O. Jackson M. Sue Stanley, Mary Kefgen, Individuality in clothing Selection and Personal Appearance, Phullis Touchie Specnt, 2000.
2. Harriet T, Mc Jimsey, "Art and fashion in clothing selection", The Iowa State University Press, Ames, Iowa , 2016.
3. Hilary Campbell, "Designing Patterns" , Om BookServices, New Delhi, 2003.
4. Helen Joseph, Pattern Making for Fashion Design, Armstrong Pearson Education, Delhi. 2000.
5. Kitty G. Dickerson, Inside the Fashion Business, Pearson Publications, New Jersey, Sixth Edition, 2002.
6. Mary Mathews, Practical Clothing Construction, Designing, Drafting and tailoring, Bhattarams Reprographics (P)Ltd., Chennai, Part II, 1991.
7. Zarapkar K. R, System of Cutting, Navneet Publications, India, 2005.

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Course Code - 23P1CDDEP1	FASHION ILLUSTRATION PRACTICAL	L	T	P	C
Elective – I (a)		-	-	5	3
Prerequisite	Have basic Knowledge about Fashion Illustration	Syllabus Version	2023- 2024		
Course Objectives					
The main objectives of this course are to:					
<ol style="list-style-type: none"> To impart practical exposure in fashion sketching To acquaint students with the knowledge on application of colours on garment designing. To impart the knowledge and skills required to become designers. To impart students to analyze and apply different fabrics and accessories on croqui To impart students to design suitable garments for different personalities. 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Perform basic fashion drawing skills: Human body and different kinds of figures and poses				K2
CO2	Application of colours on garment design				K3
CO3	Development of two and three dimension human figures				K6
CO4	Analyze and apply different fabrics and accessories				K4
CO5	Developing fashion garments for various personalities				K6

K2: Understand, K3: Apply, K4: Analyse, K6: Create

- Sketching of different action croqui
- Rendering various fabric textures on croqui -Silk/denim/checked/satin/velvet
- Application of Colours on garment designs using different mediums
- Sketching of Single, two and three dimension figures
- Application of garments on croqui for different seasons/occasions
- Application of high fashion garments on croqui with accessories, hair styles, trims/Fullness (pleats, smocking, gathering, ruffles etc.)
- Sketching of croqui with uniform for a preferable sports game e.g., cricket team.
- Developing stylized figures looking into photos and Pictures from Magazines
- Design and apply suitable garments for different personalities-tall/stout/short/thin/special persons.
- Create new designs for a bride groom (any three) of Tamil Nadu/ Karnataka/ Andhra/ Kerela/ Maharastra/ Madhya Pradesh /Punjab/ Rajasthan/ Nagaland/ Sikkim/

Bihar/west Bengal/ Gujarat/ Arunachal Pradesh / Assam/ Haryana with suitable accessories and ornaments.

REFERENCES:

1. Fashion Sketchbook, Bina Abling, 6th Edition Fairchild Books, 2012
2. Figure Drawing For Fashion Design Illustrated, Tisiannapaci, Pepin Press; 2nd edition, 2010
3. Fashion Illustration: Inspiration and technique, Anna kipper, David and Charles, 2011
4. New Fashion Figure Templates, Patrick John Ireland, Batsford, 2017
5. Figure Drawing for Fashion Design, Elisabetta Drudi, Pepin Press, 2010
6. Ranjana Singhal, Kannari Bharat, Fashion Rendering, OM books International, 2010.
7. Raviraj, Pencil Shading, Basic Techniques. New Century Book House Pvt Ltd., Chennai, 2007.
8. Pooja Khurana & Monika Sethi, Introduction to Fashion Technology, Firewall Media Pvt. Ltd., New Delhi 2007.
9. Pundalik Vaze, Jyotsna Prakashan, Draw and Paint. Pune, I Edition, 2002.
10. Steven Stipelman, Illustrating Fashion Concept to Creation, Fairchild publication, New York, 2005.
11. Kathryn Hagen, Fashion illustration for Designers, Pearson education, Inc., New jersey 2005.
12. Bina Abling, Fashion Sketch Book.: Om Books International, New Delhi, 2004.
13. Navneetkaur, Comdex Fashion Design: Fashion Concepts, Dream tech Press, New Delhi, Vol-I, 2010.

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Course Code - 23P1CDDEP2	DESIGN ART AND PAINTING PRACTICAL	L	T	P	C
Elective – I (b)		-	-	5	3
Prerequisite	Basic Knowledge about Design Art and Painting	Syllabus Version		2023- 2024	
Course Objectives					
The main objectives of this course are to:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Teach the characteristics of selected World art. 2. Teach the nuances of Indian Painting 3. Guide the students to recreate it in the garment styles 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Develop World art forms in paper				K6
CO2	Redraw the Indian paintings				K5
CO3	Understand the nuances of art forms and paintings				K3
CO4	Analyze the design details				K4
CO5	Recreate the art and painting designs in garment styles				K6

K3 - Apply; K4: Analyse, K5: Evaluate K6, K6 - Create

I. Sketch the following World Art forms and design the same in a garment

(Part of the design or full, with or without modification) with pencils, pens, acrylics, oil paints, watercolors, inks or any other medium.

- Baroque
- Impressionism
- Cubism
- Surrealism
- Futurism
- Rococo

II. Draw sketches of the Indian Paintings and Design the same in a garment.

(Part of the design or full, with or without modification) with pencils, pens, acrylics, oil paints, watercolors, inks or any other medium.

- Rajput painting
- Mysore painting

- Tanjore painting
- Kalamkari painting
- Warli painting
- Gond painting
- Mural painting

REFERENCES

1. South Indian Paintings, C. Sivaramamurti, Publisher: National Museum, 1968.
2. The Royal Art of Tanjore Paintings, Smita Shirole Yadav and Padma Raghavan, Published by English Edition, 2010.
3. Art book- "Gond Art" a Mindful Colouring Book Paperback – Trupti Kumbhare, Deepali Patwadkar, 2018.
4. Indian Painting: The Great Mural Tradition Hardcover, Mira Seth, Publisher: Harry N. Abrams, 2006.
5. Warli Painting: Step-by-step Instruction and Designs, Amrita Gupta, Create Space Independent Publishing Platform, 2016
6. Kalamkari and Traditional Design Heritage of India, Shakuntala Ramani, Publisher: Wisdom Tree, 2007

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Course Code – 23P1CDGEP1	BEAUTY CARE PRACTICAL	L	T	P	C
Elective – II (a)		-	-	5	3
Prerequisite	Basic Knowledge about Beauty Care	Syllabus Version		2023- 2024	
Course Objectives					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Impart knowledge on beauty care 2. Enable oneself to help maintain personal care 3. Enhance their beauty through make up, hair styles and skin care 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Classify basic treatments				K3
CO2	Understanding the face make up treatment				K3
CO3	Analysis the hair style treatments				K4
CO4	Gain knowledge of beauty care treatment				K4
CO5	Demonstrate the beauty care and treatments				K6

K3 - Apply; K3 - Apply; K4: Analyse, K6 - Create

I. Basics Treatments

- Threading
- Manicure
- Pedicure
- Mehendi application on hands

II. Face Make up and Treatments

- Bleaching for normal Skin
- Facial –Normal skin
- Basic Make up
- Bridal Make up

III. Hair Styles and Treatments

- Basic Hair styles (any 5)
- Special Hair styles (any 2)

- Basic hair cuts
- Dandruff treatment
- Dye application for hair

REFERENCES:

1. Green Beauty Recipes: Easy Homemade Recipes to Make Your Own Natural and Organic Skincare, Hair Care, and Body Care Products, Julie Gabriel, Petite Marie Limited, 2010
2. Beauty: The Ultimate Cosmetic Makeover Guide. Book 1: Face and Skin by Elizabeth M Reed, Published by Quillpen Pty Ltd, 2015

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Course Code - 23P1CDGEP2	SURFACE ORNAMENTATION PRACTICAL	L	T	P	C
Elective – II (b)		-	-	5	3
Prerequisite	Basic Knowledge about surface ornamentation	Syllabus Version		2023- 2024	
Course Objectives					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. To acquaint students with the knowledge on application of embellishments on fabric surface. 2. To enrich garments using dyeing 3. To impart the knowledge and skills required to design fabrics and garments using printing and painting 4. To design garments through proper selection of embroidery stitches 5. To identify the usage of garment accessory for enrichment of garments. 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Designing garments with surface decoration				K5
CO2	Application of dyeing techniques on garments				K3
CO3	Garment designing using printing and painting				K6
CO4	Evaluate samples produced using embroidery				K4
CO5	Create designs using garment accessories				K6

K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create

- I. Develop designs on garments for surface enrichment of neckline/waist line/sleeves/bottom hem line/collars/plackets/around buttons or button hole/arm line/pockets using the below embellishment techniques.
- II. Select 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. Applique
8. Studs/Beads/sequins/mirror/stone
9. Accessories-Buttons/elastic/cords/tapes/buckles

REFERENCES:

1. Munni Srivatsava and Bats for, Embroidery Techniques from East & West, London, 2005.
2. Lucinda Ganderton, Dorothy Wood, The Ultimate Book of Quilting Cross Stitch, Needle craft, Annes Publishing Ltd., London, 2005.
3. Nancy Ziemon, Machine Embroidery with confidence – A beginners guide, Krause Publications, West Indies, 2005.
4. Margo Singer, Textile Surface Decoration- Silk and Velvet, Textile handbook, A&C Black Publishers, Great Britain, 2007.

SEMESTER - II

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P2CDC03	ECO TEXTILES AND SUSTAINABILITY	L	T	P	C
Core Course – III		6	-	-	5
Prerequisite	Learning knowledge in Eco Textiles and Sustainability	Syllabus Version		2023-2024	
Course Objectives:					
The main objectives of this course are to:					
4. Understand about Eco textiles and sustainable development.					
5. Learn about the eco-friendly processing of textiles					
6. Gain knowledge about natural fibers, dyes and finishes.					
7. Learn about Ethical manufacturing					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Concept of eco-friendly textile and sustainable development				K2
CO2	Eco-friendly processing of Textiles				K2
CO3	Application of natural dyes and fabric finishes				K2
CO4	Ethical manufacturing and environmental protection				K3
CO5	To explore the need for recycling/upcycling of textiles				K4
K2 - Understand; K3 - Apply; K4 - Analyze;					

Unit I An overview of Eco and sustainable development

Introduction and Needs for Eco-textiles, Importance of eco-textiles. Ecology - Production ecology, Human ecology & Disposal ecology. Structure and stability of the ecosystem. Introduction, Definition, concepts of Sustainable Development, SDG Goals, 7 Principles of Sustainability Difference between chemical & green process in manufacturing, rules.

Unit II Eco-friendly processing of Textiles

Modern approaches to eco- friendly wet processing of woven and knitted clothing. Red listed textile chemicals, their sources, and remedies. Eco friendly fiber, Eco- friendly dyes and their method of dyeing, Enzymes, and natural dyes, Natural mordants for natural colour dye fixation.

Unit III Organic and sustainable textiles

Organic fiber production & Processes - Organic cotton, wool, silk, bamboo, Regenerated fibers- Lyocell, PLA (Polylactic Acid) fibers, Recycled fibers- PET. Fragrance textiles, health and hygiene textile using nano and biomaterials, mothproofing of woolen products, Reduction of carbon footprints in textile processing and finishing.

Unit IV Recycling, up cycling of textiles and circular economy

Recycling- Definition, recycling process, importance of recycling. Upcycling- Definition, importance of upcycling, need for recycling/upcycling of textiles and clothing, disadvantages of recycling/upcycling, Circular economy- Definition, benefits, five pillars of circular economy, steps for achieving circular economy, circular principles for textile and apparel industry.

Unit V Ethical manufacturing and corporate social responsibility

Seven ethical issues relating to textile and fashion industry, impact of textile and fashion industry on the environment. Ethical, Standard practices for sourcing of sustainable fashion clothing and accessory. Corporate Social responsibility in fashion and apparel industry.

REFERENCES

1. K. Sangeetha, Eco Textiles and Sustainability, Laser Park Publishing House, 2017.
2. Richard Blackburn, Sustainable Textiles: Life Cycle and Environmental Impact, Wood head Pub.Ltd., 2009.
3. Miraftab M. and Horrocks R., Eco Textiles, Wood head Pub. Ltd, Cambridge, 2007.
4. Black S, Sustainable Fashion Handbook, Thames and Hudson, 2013.
5. Rajesh D., Textiles for Sustainable Development, Anandjiwala Nova Publishers, 2007.
6. Miraftab, M Horrocks, A. Richard, Eco textiles: The Way Forward for Sustainable Development in Textiles, Wood head Publishing, Elsevier, 2007.
7. Richard S. Blackburn, Sustainable Textiles: Life Cycle and Environmental Impact, Woodhead Publishing; 2009.
8. Marion I Tobler-Rohr, Hand book of Sustainable Textile Production, Woodhead Publishing, Elsevier, 2011.
9. Charis M. Galanakis, Biobased Products and Industries, Elsevier, 2020.
10. P. Vinayagamurthi ,S .Kavitha, D. Gopalakrishnan, Textiles finishing –Basic concepts and application, Astral Publications International Pvt. Ltd, New Delhi, 2018.
11. M W King, B S Gupta, R Guidoin, Bio-Textiles as Medical Implants, Woodhead Publishing, 2013.
12. Christier.M., Environmental Aspects of Textile Dyeing, Woodhead Pub. Ltd, Cambridge, 2007

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P2CDC04	TEXTILE TESTING	L	T	P	C
Core Course - IV		6	-	-	5
Prerequisite	Analyze and Evaluate the Textile Testing methods	Syllabus Version		2023-2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Understand the importance of textile testing and its role in quality control. 2. Apply various testing methods and instruments for testing of textiles. 3. Understand the national and international standards for textile testing. 4. Analyze the properties of textile materials by testing. 5. Evaluate the quality of textile materials based on test results. 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Understand the Quality Parameters and standards of textile testing				K2
CO2	Outline the methods, procedures and instruments to determine the fibre length, fibre fineness and fibre strength				K3
CO3	Understand the suitable testing methods for fabric weight, count, thickness, crease recovery, abrasion, stiffness, strength, drape and pilling				K2
CO4	Differentiate the procedures of various Color fastness tests				K3
CO5	Understand the comfort related properties such as air permeability, water and vapor transmission and heat transmission				K2
CO6	Execute the Yarn testing methods for count, twist, strength and unevenness				K4
K2 - Understand; K3 - Apply; K4 - Analyze;					

Unit I An overview of textile testing and humidity

Textile testing and its objectives: Introduction to standards – Importance, types, International Quality parameters and standards like AATCC, ASTM, BIS etc. Moisture and Humidity – its importance and relationship to textiles, Standard atmospheric conditions, Measurement of humidity – Wet and Dry bulb hygrometer, Sling hygrometer, Measurement of moisture regain and content by Conditioning oven and Shirley moisture meter.

Unit II Testing of fibre properties

Fibre testing – Fibre length and its importance; Methods of measuring fibre length - Baer sorter; Fibre fineness – Sheffield method and ATIRA fibre fineness tester; Fibre Maturity – Caustic soda swelling method; Fibre strength – Measurement of strength using Pressley tester and Stelometer, Fibre Quality Index; Analysis of trash and lint content in cotton by Shirley trash

analyser.

Unit III Determination of yarn properties

Yarn testing – Determination of yarn count, Instruments used for determination of count by Quadrant balance Twist and its significance – Estimation of twist by Twist contraction method and Take – up twist tester; Measurement of yarn strength using CRL, CRT and CRE principles, CSP determination, Study of instruments – Single thread strength tester and Lea strength tester; Yarn evenness – Random and periodic variations, Index of irregularity, Yarn appearance board and ASTM standards, Uster Evenness tester, Influence of yarn hairiness on fabric quality.

Unit IV Determination of fabric and garment properties

Fabric testing – Determination of fabric weight; Count determination; Importance of cover factor; Crimp properties – Shirley crimp tester; Measurement of thickness by Shirley thickness gauge; Fabric stiffness tester, Measurement of crease recovery – Shirley crease recovery tester; Abrasion resistance – serviceability, wear and measurement by Martindale abrasion tester; Fabric strength – Tensile, Tearing and Bursting strength testers; Assessment of pilling in fabric, Measurement of fabric drape; Objective measurement of fabric handle – Kawabata Evaluation Systems for Fabric (KESF), FTT - Fabric Touch Tester and Fabric Assurance by Simple Testing (FAST) testers. Garment testing - Seam testing- seam strength, seam slippage. Accessories Testing- Zipper, Buttons, Sewing thread.

Unit V Testing of fabric comfort and colour fastness

Clothing comfort – Classification, Thermal comfort- water and vapour permeability, Thermal conductivity, thermal resistance and air permeability. Colour Fastness– Importance and factors affecting colour fastness, Colour fastness to Washing, Sunlight, Crocking, Pressing and Perspiration, Grey scales and ratings.

REFERENCES

1. A Practical Guide to Textile Testing, Amutha.K, CRC Press, 2016
2. Textile Testing, Raul Jewel, APH Publishing Corporation, 2005
3. Advanced Textile Testing Techniques, Sheraz Ahmad et al., CRC Press, 2017.
4. Fabric Testing, Ed. Jinlian Hu, Woodhead Publishing Ltd., 2008.
5. Principles of Textile Testing, J.E.Booth, 3rd Edition 1986, CBS Publishers & Distributors, 1996

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9. Fabric testing by Jinlian Hu, first edition, Woodhead publishing, 2008
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11. P. Vinayagamurthi ,S .Kavitha, D. Gopalakrishnan, Textiles finishing –Basic concepts and application, Astral Publications International Pvt. Ltd, New Delhi, 2018.
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M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P2CDCP02	TEXTILES AND APPAREL TESTING PRACTICAL	L	T	P	C
Core Practical – II		-	-	6	4
Prerequisite	Evaluate and testing knowledge of textile fibers	Syllabus Version		2023-2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Test the quality parameters of the fabric, 2. Evaluate the quality of yarn and garments 3. Analyse the colour fastness properties of fabric 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Perform yarn tests for crimp percentage, evenness and single yarn strength				K5
CO2	Analyze fabric test such as weight, count, thickness, crease recovery, abrasion, stiffness, bursting strength, tearing strength, drape and pilling				K4
CO3	Assess various color fastness tests				K5
K4 - Analyze; K5 - Evaluate;					

Testing and Evaluation of:

1. Yarn Count, lea strength and CSP
2. Single Yarn Strength
3. Twist of yarn
4. Fabric parameters- EPI, PPI, Thickness, GSM
5. Stiffness of fabric
6. Abrasion Resistance of fabric
7. Crease Recovery of fabric
8. Drape of fabric
9. Pilling of fabric
10. Tensile Strength of fabric
11. Tear Strength of fabric
12. Bursting Strength of fabric
13. Colour Fastness to Washing
14. Crocking of crocking (dry/wet)
 15. Colour Fastness to Perspiration of fabric
 16. Shrinkage

17. Seam testing: seam strength, seam slippage.
18. Accessories Testing: Zipper, Buttons, Sewing thread.

REFERENCES

1. A Practical Guide to Textile Testing, Amutha.K, CRC Press, 2016
2. Textile Testing, Raul Jewel, APH Publishing Corporation,2005
3. Advanced Textile Testing Techniques, Sheraz Ahmad et al., CRC Press, 2017.
4. Fabric Testing, Ed. Jinlian Hu, Woodhead Publishing Ltd., 2008.
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M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P2CDDEP3	DESIGN COLLECTION PRACTICAL	L	T	P	C
Elective – III (a)		-	-	4	3
Prerequisite	To gain knowledge in garment designing skills and the collection of presentation	Syllabus Version		2023-2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Gain a clear understanding of range planning 2. Enhance designing skills 3. Gain more confidence in presenting the collection 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Perform and present the collection of portfolios				K5
CO2	Design and collection of various range of garments.				K4
CO3	Create the jewellery and accessories with theme				K5
CO4	Plan the design collection for wedding, birthday party and other occasion				
K2 - Understand; K3 - Apply; K4 - Analyze; K6 – Create					

- I. **Garment Design Collection with Theme and Inspiration** - (Design collections can be done in computers or by hand)
 - Present all the collections as Portfolio with a minimum of 4 boards each
- II. **Design a collection / range for the following (4 to 6 garments each)**
 - Casual wear
 - Party wear
 - For a Season (any 1)
 - For a Festival (any 1)
- III. **Jewellery and Accessories Collection with Theme and Inspiration**
 - Design ornaments for the head, ear, neck, hand, finger, waist and any other special items like masks, kerchiefs and so on (2 collection)
 - Design handbags, purse, cellphone pouch and travel bag (2 collection)
- IV. **Design a Collection for a Wedding / Birthday Party or any Function (any 2)**

REFERENCES

1. Fashion Design Drawing and Presentation, Patrick John Ireland, B T Batsford Ltd, 2006
2. Creative Fashion Presentation, Polly Guerin, Fairchild Publishers, 1987

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P2CDDEP4	ORNAMENTS AND ACCESSORIES DESIGNING PRACTICAL	L	T	P	C
Elective – III (b)		-	-	4	3
Prerequisite	To apply Construction and designing skills in Garment enrichment	Syllabus Version	2023- 2024		
Course Objectives:					
The main objectives of this course are to:					
1. To create and develop ornaments and jewellery.					
2. To design ornaments and jewellery for various occasion.					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Designing garments with Fabric accessories				K6
CO2	Application of various ornaments suitable various occasions and garment styles				K3
CO3	Ornament designing suitable to different human personalities				K6
CO4	Evaluate over all appearance on applying ornaments and accessories				K5
K3 - Apply; K5 - Evaluate; K6 – Create					

I. Create the following

- A. Fabric accessories - Bag/Stole/Hat/shawl/scarf /mask/gloves/any others
- B. Leather accessories - Belt/Shoe/Slipper/suspenders/pouch /any others
- C. Clay and Stone accessories - One set of ornament
- D. Metal accessories - Ear ring/ Necklace/ Ring/Bangle/Anklet/Bracelet /any others
- E. Use of natural waste materials and other usable materials for making fashion accessory.

II. Create the following ornaments

- A. Ornaments for Hair
- B. Ornaments for Ear
- C. Ornaments for Neck
- D. Ornaments for Hand
- E. Ornaments for Hip
- F. Ornaments for Finger
- G. Ornaments for legs

III. Create set of ornaments to suit a dress

A. Set of Bridal ornaments

B. Set of ornaments for any special garments (like fashion show, dance costume etc)

REFERENCES

1. Jewellery Making, A Complete Course for Beginners, Jinks McGrath, Apple Press, 2007
2. The Workbench Guide to Jewellery Techniques, Anastasia Young, Thames and Hudson, 2010
3. Phyllis G. Tortora, Bina Abling,(2003) The Fairchild Encyclopedia of Fashion Accessories, Fair child Publications
4. Elizabeth Galton, (2012) Jewelry Design: From Fashion to Fine Jewelry, AVA Publishing, Singapore.
5. Robert Leach, (2012) The Fashion Resource Book: Research for Design, Thames & Hudson.
6. Gini Stephen Frings,(2002) Fashion from Concept to Consumer, Prentice Hall Inc., New Jersey.
7. Marywolfe (2003), The world of fashion merchandising, The Goodheart-wilcox Company Inc. Illinois
8. Dorling Kindersley,(2012) Fashion, The Ultimate Book of Costume and Style, Published by Dorling Kindersley Limited; London

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P2CDGE01	COMMUNICATION FOR FASHION BUSINESS	L	T	P	C
Elective – IV (a)		4	-	-	3
Prerequisite	Evaluate and testing knowledge of textile fibers	Syllabus Version		2023- 2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. To study about communication process 2. To understand about the importance of listening 3. To learn about the business correspondence and presentation skills 4. To study the business communication techniques 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Business communication and its process				K2
CO2	Significance of active and poor listening				K2
CO3	Application of Presentation skills				K3
CO4	Analyze the principles of Business correspondence				K4
CO5	Application of business communication skills for letter correspondence				K3
K2: Understand, K3 - Apply; K4: Analyse, K6 - Create					

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.

REFERENCES

1. Krishna Mohan and Meera Banerji, Developing 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.,Noida,2015.
4. R.C. Bhatia, Business communication, Ane's books Pvt. Ltd., New Delhi,2009.

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P2CDGE02	HOME TEXTILE	L	T	P	C
Elective – IV (b)		4	-	-	3
Prerequisite	To know about the home textiles and its application	Syllabus Version		2023- 2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. To study about the concept and market for home textiles 2. To understand the uses and applications of floor coverings 3. To know about the characteristics of Windows and Wall Coverings 4. To understand about the products used in seating and bed linens 5. To understand the application and uses of table, kitchen and bath linens. 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Create bedlinens, table linen, kitchen linen, window dressings	K6			
CO2	Modify the ambience of the room for good	K4			
CO3	Develop home textile collection for different age groups and special people's needs	K5			
CO4	Understand current trends of home textiles	K2			
CO5	Select fabrics and accessories to suit the need and item	K3			
K2 - Understand; K3 – Apply, K4 - Analyze; K5 - Evaluate; K6 – Create					

Unit I Home Textile in India

Home Textile in India: Introduction, history, exports – Trends in home textile industry – Domestic and Global market for home textiles, Major production centers in India. Home Textile Products – Role of fabric in interior furnishing – Properties required – Factors affecting that selection of fabrics – Different fibers used, Standard sizes, Fabric requirement and cost calculations.

Unit II Seating and Bed Linens

Seating: Structures, lay out, Range & size – Material used – Manufacturing – Double cloth – loop pile – cut pile – cushion foam – multi layer sheets – seat covers – types & materials.

Bed Linens – Definitions – design & size – Bed spread designs – chenille and organic bed spreads – dimensions – Bed sheets – types – fitted sheets – manufacturing process – bed skirts – types – mattress – domestic and international market for bed linens – pillows – Quilt types – Machine, Hand quilting – process sequence for bed linen – scope in global market.

Unit III Windows and Wall Coverings

Windows- Basic sizes, Lay outs, Materials – Voiles, Nets – Sun filters – Semi sheers – Reflective textiles – Draperies – Types – Valances – Types – Shades – Types – Swags – Headings – Types. Curtains – Introduction – Types of curtains – Characteristics of curtain fabrics. Wall Coverings- Requirements, benefits, types – carpet as wall covering – choice of Materials - manufacturing of fabrics – Application and end use.

Unit IV Floor Coverings

Floor Coverings: Definitions – Fiber used – Types of carpets – Comparison of carpets – broad loom carpets — Benefits of carpets and rugs – Carpet cushions – Manufacturing Process –Rugs-Types of rugs – Knots and oriental rugs – Embroidered rugs – Natural leather rugs–Advances- Earth carpets – Thinking carpets – Magic carpets – Lawn carpets.

Unit V Table, Kitchen and Bath Linen

Table Linens – Place mats and table cloths – Definition – Placemats – Varieties of placemats – Making process flow – Instruction – tips and warnings – Reversible placemats – Stone placemats– table cloths – Types, material and manufacturing .

Kitchen Linens – Introduction – Material used – Kitchen products – Oven mitten – Pot holder – Apron – Napkins – Doilies – Kitchen mats – Dining table cloth – tea cozy–kitchen curtain– Table runner – Kitchen rugs – Types of stitches and seams used.

Bath Linen- Categories – bath robe – Sizes and design elements – Terry towels– Fiber used – Standard sizes –Construction of terry towels -use and care – Production centers.

REFERENCES

1. Gopalakrishnan.D and T. Karthik, Home Textiles, Astral Publications, 2020.
2. Subrata Das, Performance of Home Textiles, Woodhead, 2018.
3. Ashis Kumar Ghosh, Traditional Knowledge of Household, Daya Publishing House, 2011.
4. V. Ramesh Babu, S. Sunderesan, Home furnishing, Woodhead, 2018.
5. Varghese, M.A., Ogale, M.M, and Srinivasan , K., Home Management, New AgeInternational,2017.
6. Premavathy, Parveen Pannu, Interior Design and Decoration“, CBS Publishers and Distributors, 1st Edition, 2013.
7. Harriet Goldstein, Art in Every Day Life, Goldstein Press, 2007.
8. Virginia Hencken Elsasser and Julia Sharp, Know Your Home Furnishings, Fairchild Books; 2nd Edition, 2016.

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P2CDSE01	ADVANCED GARMENT CONSTRUCTION PRACTICAL	L	T	P	C
Skill Enhancement Course -I		-	-	4	2
Prerequisite	To get knowledge on garment construction	Syllabus Version		2023- 2024	
Course Objectives:					
The main objectives of this course are to:					
6. To study about the theme formulation and garment designing ideas					
7. To design garments and develop patterns using flat pattern techniques					
8. To develop the knowledge of selecting suitable fabrics					
9. To apply construction skill for garment development and enrichment					
10. To learn the cost calculation for finished garment					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Developing theme and garment design	K6			
CO2	Application of flat pattern techniques for pattern drafting	K3			
CO3	Analyzation and collection of suitable materials for garment design	K4			
CO4	Application of Garment construction and enrichment techniques	K3			
CO5	Evaluation of cost of finished garment	K5			
K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create					

Development of garments by incorporating flat pattern techniques.

- Develop a theme, design garments and present flat sketches for Children/ Women's / Men's/special garments (any three)
- Develop patterns and drafting instructions for the developed garment design
- Selection of colour and fabrics suitable for developed design
- Construction of garments
- Finish the garments with accessories / embellishments.
- Calculate the cost of the garment.

REFERENCES:

1. Zarapkar System of cutting, Zarapkar Tailoring College, Navneet, 2010.
2. Reader's Digest Complete Guide to Sewing, Reader's Digest Association, 1982.
3. Anita Tyagi, Handbook of fashion Technology, Sonali Publications, New Delhi, 2012.
4. Peg Couch, Garment Construction: A Complete course on making clothing for fit and Fashion, Fox Chapel Publishing. USA, 2011.
5. Marie Clayton, Make your own clothes: Twenty custom fit pattern to sew, Collins & Brown, London, 2008

SEMESTER - III

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code – 23P3CDC05	RESEARCH METHODOLOGY AND STATISTICS	L	T	P	C
Core Course - V		6	-	-	5
Prerequisite	To gain knowledge on research methodology	Syllabus Version	2023- 2024		
Course Objectives:					
The main objectives of this course are to:					
11. To study about the review of literature in research.					
12. To understand the variable research design.					
13. To learn about the data collection methods.					
14. To know about the techniques of report writing.					
15. Scope of statistics and its measures.					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Recall the Concepts of Research				K1
CO2	Techniques of research problem hypothesis				K2
CO3	Analyze the process of collecting data's.				K4
CO4	Effective Research presentation and report preparation				K3
CO5	Efficient usage of different statistical tools and interpretation of data				K5
CO6	Select the right and proper method for data collection				K5
K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create					

Unit I Fundamental Concepts of Research

Research: Meaning, definition, Objectives, types of research, Steps in research process.
 Research Problem: Formulating Research Problem, Defining the research problem, Selection of Research Problem and Technique involved in defining a problem. Review of Literature: Understanding and completing Literature review, preparing a Literature review.

Unit II Research Approach Design and strategy

Understanding Variables: Definition and Types of Variables Research Design/Proposal
 - Research Design – Meaning, Types of Research Design, Basic principles of experimental designs, developing a research Plan. Sampling – Census and sample survey, steps in sampling design, criteria for selecting a sampling procedure, characteristics of a good sample design, different types of sample design.

Unit III Data Collection and Data Presentation

Definition of Primary and Secondary data, Sources of Primary and Secondary data
 Data Collection Methods: Quantitative Data collection methods: Interviews and Types of

Interviews (Face to face Interviews, Telephone Interviews, Computer Assisted Personal Interviewing) Questionnaires (Paper-pencil questionnaires, web-based questionnaires)
Scientific Experiments and Laboratory test methods

Qualitative Data Collection Methods: In depth Interview, Focus Group, Observation method, Document review, Ethnography

Data Processing – Steps in Data processing for Quantitative Studies and Qualitative studies

Data Presentation: Textual, Tabular (Components of table, features of a good table, kind of tables, classification of data and tabular presentation) and Graphical

Unit IV Generalization and Write Up

Report Writing - Research Report – Format of research report, main body of the report, references and appendices, style of writing, typing the report, pagination, tables and figures, bibliography, footnotes, margins, quotations, evaluating the report.

Unit V Statistics

Meaning and scope of statistics, role of statistics in research, measures of central tendency and dispersion. Co-efficient of Correlation and its Interpretation, Rank Correlation, Regression equation, Application of Chi – Square test, ANOVA test.

REFERENCES

1. Research Methodology: Methods and Techniques, C R Kothari, New Age International (P) Ltd, Delhi, 2011.
2. Introduction to Research in Education, Donald Ary, Lucy Jacobs, Asghar Razavieh, Christine Sorensen, Cengage Learning, 2009
3. Research Methodology: A Step By Step Guide For Beginners, 2/E, Ranjit Kumar, Pearson Education India, 2018
4. An Introduction to Statistical Methods, S P Gupta, Vikas publishing House, Delhi, 2009.
5. Research Methodology: An Introduction, Wayne Goddard, Stuart Melville, Juta and Company Ltd, 2004
6. Research Methodology and Statistical Techniques, Santosh Gupta, Deep and Deep Publications, 1999

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code – 23P3CDC06	TEXTILES AND APPAREL QUALITY STANDARDS	L	T	P	C
Core Course - VI		6	-	-	5
Prerequisite	To study about the textiles and apparel quality standards	Syllabus Version	2023- 2024		
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Study about national and international standards pertaining to textile industry. 2. Demonstrate Eco standards pertaining to fabric and apparel. 3. Study about quality management of apparel industry. 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Adopting quality and standards in apparels				K3
CO2	Application of apparel testing methods				K2
CO3	Applying Eco standards				K3
CO4	Evaluation of total quality management in industry				K5
CO5	Analyze garment quality test methods				K4
K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;					

Unit I Standards and Test Methods

Introduction to Quality and Standards- Quality management system (QMS) – ISO, ASTM, AATCC, BS, BIS, DIN- ISO – ASTM Standards for Apparel, ASTM Standards for Body Measurement for Apparel Sizing, chemical and thermal properties for textiles, ASTM Cotton Fiber Standards, ASTM Flammability tests, ASTM Standards for yarn and fiber. AATCC Testing methods for color fastness to Acids, Alkalis, Crocking, Perspiration, Light, dye and pigment migration.

Unit II Social Accountability International

Social Accountability International (SAI) – SA8000 – Elements of SA8000 Standard – Child labor, Forced or Compulsory labor, Health and Safety, Freedom of Association and Right to Collective Bargaining, Discrimination, Disciplinary Actions, Working Hours, Remuneration, SA8000 Management System.

Unit III Eco standards and Eco Specifications

Eco Standards and Certification – ISO 14000, Eco Mark, OekoTex 100 Standards, Global Organic Textile Standard (GOTS) – Requirements for Organic Fiber Production under

GOTS, General Requirements for Chemical Inputs under GOTS, Occupational Health and Safety Assessment Series (OHSAS) -Eco Specifications and restrictions in Apparel and Textiles – Sensitizing dye stuffs, Allergic dyes, Carcinogenic amines, red listed as per eco specifications.

Unit IV Total Quality Management and Accepted Quality level

TQM – Implementation phases of TQM – 5’S, Daily Work Management (DWM), Six Sigma – SIPOC flow at garment industry, Lean Six Sigma. Accepted Quality Level (AQL) – AQL 1.5, AQL 2.5, AQL 4.0 - Manufacturing of Readymade Garments (RMGs) – Defect analysis – Zero Defect, Stage wise defect occurrence in RMG Production.

Unit V Garment Quality test and Labelling Parameters

Garment Quality tests for dimensions – Stitch quality, Seam quality. Durability characteristics of Trims – Resistance of Zippers, Buttons, Snaps, Buckles to abrasion, bursting and corrosion. Labelling: Labelling parameters, Eco – labelling.

REFERENCES

1. David Hoyle, ISO 9000 Quality Systems Handbook - updated for the ISO 9001:2008 standard, Routledge, 2009.
2. Joseph M. Juran, Quality Planning and Analysis, Tata McGraw-Hill Higher Education Publisher, 2014.
3. Pradip V. Mehta, Satish K. Bhardwaj, Managing Quality in the Apparel Industry, Nift Publication, New Delhi, 1998.
4. Sara J. Kadolph, Quality Assurance for Textiles and Apparel, Bloomsbury Academic, 2nd Edition, 2007.
5. Saville, Physical Testing of Textiles, B.P Woodhead Publishing Ltd and CRC Press LLC, 1996.
6. M Miraftab, A. Richard Horrocks, Eco textiles: The Way Forward for Sustainable Development in Textiles, Elsevier, 2007.
7. Rajkishore Nayak, Rajiv Padhye, Garment Manufacturing Technology, Elsevier, 2015.
8. Jens J. Dahlgaard, Ghopal K. Khanji, Kai Kristensen, Fundamentals of Total Quality Management Routledge, 2008.

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P3CDCP03	ECO TEXTILE PROCESSING PRACTICAL	L	T	P	C
Core Practical - III		-	-	6	5
Prerequisite	To understand and apply eco textile processing	Syllabus Version		2023- 2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Inculcate students the practical knowledge on different types of eco processing and finishing methods. 2. To explore practical skills on fiber and dye extraction from natural sources 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Sourcing and analyzing natural fibers for extraction				K4
CO2	Understanding the fiber and dye extraction methods				K2
CO3	Application of natural dye and finishes on fabric/yarn/fiber				K3
CO4	Creating print designs for application of natural dye				K6
CO5	Development of eco-friendly finished samples				K3
K2: Understand, K3: Apply, K4 - Analyze; K6 - Create					

- I. Prepare samples / develop product for the following using environment friendly process
 1. Extraction of fiber from natural sources
 2. Preparation and processing of fabric/yarn/fiber for dyeing /printing
 3. Extraction of dye from natural sources
 4. Dyeing / Printing of processed fabric using extracted natural dye – tie and dye/batik/Screen/stencil/block
 5. Develop sustainable textile finished (special / functional) sample / Product using natural ingredients.

REFERENCES

1. K. Sangeetha, Eco Textiles and Sustainability, Laser Park Publishing House, 2017.
2. Richard Blackburn, Sustainable Textiles: Life Cycle and Environmental Impact, Wood head Pub.Ltd., 2009.
3. Miraftab M. and Horrocks R., Eco Textiles, Wood head Pub. Ltd, Cambridge, 2007.

4. P. Vinayagamurthi ,S .Kavitha, D. Gopalakrishnan, Textiles finishing –Basic concepts and application, Astral Publications International Pvt. Ltd, New Delhi, 2018.
5. Black S, Sustainable Fashion Handbook, Thames and Hudson, 2013.
6. Rajesh D., Textiles for Sustainable Development, Anandjiwala Nova Publishers, 2007.
7. Miraftab, M Horrocks, A. Richard, Eco textiles: The Way Forward for Sustainable Development in Textiles, Wood head Publishing, Elsevier, 2007.
8. Richard S. Blackburn, Sustainable Textiles: Life Cycle and Environmental Impact, Woodhead Publishing; 2009.
9. Marion I Tobler-Rohr, Hand book of Sustainable Textile Production, Woodhead Publishing, Elsevier, 2011.
10. Charis M. Galanakis, Biobased Products and Industries, Elsevier, 2020.

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P3CDDE01	SUPPLY CHAIN MANAGEMENT	L	T	P	C
Elective - V		3	-	-	3
Prerequisite	To gain knowledge in supply chain management	Syllabus Version	2023- 2024		
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Impart knowledge on the scope and importance of supply chain management 2. Gain insights on the role of distribution, transportation, and supplier in supply chain 3. Gain better understanding on the significance of IT in the supply chain 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Understand the categories of fashion, the terminology of garments, and draw technical sketches.				K2
CO2	Understand design elements and principles; create various silhouettes and design details				K2
CO3	Interpret various garment shaping devices and style variables.				K2
CO4	Apply the correct use of fabric and printing techniques in styling.				K3
CO5	Design garments by applying colour principles and techniques.				K6
K2 - Understand; K4 - Analyze; K5 - Evaluate; K6 – Create					

Unit I Supply Chain Management, Scope and Importance

Role of Logistics and Supply chain Management: Scope and Importance- Evolution of Supply Chain - Decision Phases in Supply Chain - Competitive and Supply chain Strategies – Drivers of Supply Chain Performance and Obstacles.

Unit-II Distribution in Supply Chain

Role of Distribution in Supply Chain – Factors influencing Distribution network design – Design options for Distribution Network Distribution Network in Practice-Role of network. Design in Supply Chain – Framework for network Decisions.

Unit-III Transportation in Supply Chain

Role of transportation in supply chain – factors affecting transportations decision – Design option for transportation network – Tailored transportation – Routing and scheduling in transportation.

Unit-IV Sourcing Supply Chain Supplier

Role of sourcing supply chain supplier selection assessment and contracts- Design collaboration -sourcing planning and analysis - supply chain co-ordination - Bull whip effect

– Effect of lack of co-ordination in supply chain and obstacles – Building strategic partnerships and trust within a supply chain.

Unit-V IT in Supply Chain

The role IT in supply chain- The supply chain IT frame work Customer Relationship Management – Internal supply chain management – supplier relationship management – future of IT in supply chain – E-Business in supply chain.

REFERENCES

1. Supply Chain Management, Strategy, Planning, and operation, Sunil Chopra, Peter Meindl and Kalra, Pearson Education, 2010.
2. Modeling the Supply Chain, Jeremy F.Shapiro, Thomson Duxbury, 2002
3. Quantitative models in Operations and Supply Chain Management, Srinivasan G.S, PHI, 2010

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P3CDDE02	APPAREL PRODUCTION AND PLANNING	L	T	P	C
Elective - V		3	-	-	3
Prerequisite	Knowledge of productivity and production management	Syllabus Version		2023-2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Create a better understanding on improving productivity 2. Gain in depth knowledge on work study and method study 3. Gain a clear perspective of production management 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Understand the significance of productivity and production management				K2
CO2	Apply ergonomics in the apparel industry				K3
CO3	Evaluate the production with work study and method study				K5
CO4	Interpret work measurement procedure and techniques				K2
CO5	Appraise the productivity in a workplace				K5
K2 - Understand; K3 - Apply; K5 - Evaluate;					

Unit I Productivity, Meaning, Measurement and Importance

Productivity: Meaning, measurement and importance; productivity and standard of living; factors affecting productivity; improving productivity; determination of total time of a job; reducing ineffective time. Introduction of Industrial Engineering - Application of Ergonomics in apparel industry.

Unit II Production management

Production management: Stages of Product Development, Function of production control, Productivity Concept, Human resource management, inventory management, Equipment, management and Plant modernization. Scope of manufacturing activity, coordinating departmental activities.

Unit III Work Study

Work Study: Meaning, importance and procedure; human factor in the application of work study. Working conditions and environment; pre-requisites for work study

Unit IV Method Study

Method Study: Selection of jobs, record, examination and development, movements of workers in the working area; evaluate, define, install and maintain; method study in the apparel industry.

Unit V Work Measurement

Work Measurement: Purpose, uses, procedure and techniques; work sampling; time study; equipment, selecting and timing the job; rating and standard time; pre-determined time standards and standard data; uses of standard data. Materials Handling and Storage, Flexible Manufacturing Systems, Operation Time Analysis

REFERENCES

1. Introduction to Clothing Production Management, A.J. Chuter, Blackwell Scientific Publications, 1995
2. The Technology of Clothing Manufacture, Barbara Latham and Harold Carr, Blackwell Scientific Publications, 1988
3. Apparel Manufacturing Handbook, Jacob Solinger, Van Nostrand Reinhold Company, 1980.

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P3CDSEP2	CAD FOR FASHION DIGITAL COMMUNICATION PRACTICAL	L	T	P	C
Skill Enhancement Course - II		-	-	3	2
Prerequisite	To learn and create the design on CAD software	Syllabus Version		2023- 2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. To understand about the applications of CAD softwares 2. To learn about creating design and content for garment logo and pamphlet suitable for apparel industry 3. To learn about designing garments based on a theme 4. To Create the illustration using CAD software 5. Evaluate the designed garment for selected theme 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Perform the basic operations of CAD Software's				K2
CO2	Apply creatively the Filter effects, User defined brush presets, path and characters drape and pilling				K3
CO3	Create design pattern, print repeat and graphics				K6
CO4	Execute Mood board and story board based on theme using Advanced Graphics				K4
K2 - Understand; K3 - Apply; K4 - Analyze; K6 - Create					

I. Preparing garment design using CAD

Application of Software's - Adobe Photoshop / Coral Draw / Adobe illustrator

Present your collections of practicing the Photoshop/ Coral draw tools for enhancing images, Masking, transforms, working with layers, Merging and blending layers, text effects, duplicate, print design creation and repeat setting.

II. Practice and learn the following

Work Space Overview: Learn about Top Menu Bar, How to create a new Document, Photo Shop Tool Palette, Shortcut keys and uses.

Working with layers and channels:

Preparing Files and creating a colour Palette

Scanning: Basics, scanning and aligning fabrics

Layers: Use and Function in Design, Exercises on Layers

Masks: How to use mask in Adobe Photoshop

Channels: Working with channels.

Creating Filters, brush presets, working with path and Character

Filters: Filters and uses, working with filters, giving effects to pictures

Brushes Presets: Brushes and uses, Add New brushes

Path: Path and uses, working with Paths

Character: Work with Text, Typography and uses

Creating design pattern, print repeat and working with graphics

Understanding Swatches, Working with Repeat of a pattern

Pattern: Define, Create woven patterns

Print Repeat: Fundamentals and Creating Print Repeat

Graphics: Preparing Graphics, How to make Graphics

- III. Creative design and content for garment Logo /pamphlet/ letter head and visiting card / fashion silhouette / Mood board and story board suitable for apparel and fashion industry.
- IV. Digital Fashion Portfolio Creation for Male/Female/children using the below concept (three garment collections for each category)
- Health, safety and protective garments
 - Sports garments / leisure garment
 - Corporate/Office attire/work outfits/
 - Uniforms for restaurant/ Hotel/Spa/housekeeping/front desk/ office professionals

REFERENCES

1. Melanie Bowles, Print, Make, Wear: Creative Projects for Digital Textile Design, Paperback, The People's Print, 2015.
2. Josephine Steed, Basics Textile Design 01: Sourcing Ideas: Researching Colour, Surface, Structure, Texture and Pattern, Paperback, Frances Stevenson, 2012.
3. Harold Carr and Barbara Latham, The Technology of Clothing Manufacture, Black Well, Berlin, 2004.
4. Frederick L. Chipkin, Adobe Photoshop Elements for Textile Design, Origin Inc., 2010.
5. Marianne Centner and Frances Vereker, Fashion Designers Handbook for Adobe Illustrator, John Wiley & Sons Ltd., United Kingdom, 2011.

6. Robin Schneider, Adobe for Fashion: Illustrator CS5, The ultimate guide to drawing flats, Lulu.com, 2012.
7. Frankie Ng and Jiu Zhou, Innovative Jacquard Textile Design using digital technologies, Woodhead Publishing, London, 2008.
8. Gini Stephen Frings, Fashion from Concept to consumer, Prentice Hall Inc., New Jersey, 2002.
9. Stephen Nicholas Gray, CAD/CAM in Clothing and Textiles, Design Council Publisher, 1998.
10. Melanie Bowles, Digital Textile Design, Paperback, Ceri Isaac Illustrated, 2012.

SEMESTER – IV

M.Sc., Costume Design and Fashion 2023-2024 onwards – VICAS - Autonomous Colleges

Course code - 23P4CDC08	APPAREL PRODUCTION TECHNOLOGY	L	T	P	C
Core Course - VIII		6	-	-	5
Prerequisite	To learn and understand the apparel production planning	Syllabus Version		2023-2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. To learn about apparel production systems 2. To Understand production processes 3. To understand the techniques of finishing and packing apparels 4. To Understand Production Planning and Control 5. To impart knowledge on plant loading and capacity planning 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Apparel production systems				K2
CO2	Analyze the Process involved in production				K3
CO3	Analyze finishing and packing of apparels				K6
CO4	Application of production planning and control				K4
CO5	Evaluate plant loading and capacity planning				K5
K2: Understand, K3: Apply, K4: Analyze, K5: Evaluate, K6: Create					

Unit I Apparel Production Systems and trade associations

Apparel Production Systems - Nature and Scope. Major functions of apparel manufacturing - Material flow in apparel industry - Basic types of apparel production process - Make through system, Group system, Whole garment production system, Assembly line system, Progressive bundle system and computerized overhead transport system / Unit production system.

Unit II Computerized Production Process, planning and scheduling

Production Process - Marker Planning- Efficiency of Marker, Methods of Marker Planning. Spreading-Spreading of the fabric to form a lay, Spreading Requirements, Methods of Spreading. Cutting-Fabric Packages, Introduction to Garment Cutting, Objectives of Cutting, Methods of Cutting. Garment sewing- Automation in apparel manufacturing process-spreading, Marker Making, cutting and sewing.

Computerized Production planning and scheduling - Computer applications in

Production planning and scheduling – CAD, CAM, CIM. Applications of Artificial Intelligence (AI) in apparel industry - Fabric defect identification, Pattern inspection, Colour matching, Production planning and control, Final inspection.

Unit III Finishing and packing

Apparel Finishing-Importance - Garment pressing and finishing, Types of Garments pressing, Specialty Garment Finishes. Quality Checking-Inspection, Interactive bar coding, needle detection.

Packaging and ware housing- Types of packing, packing materials, quality specification, merchandise packing and shipping packing. Intra transport, ware housing, computerized storage.

Unit IV Production Planning and Control

Pre-production functions – product acceptance, steps from prototype to production model, order requirements - Production Control-Definition, objectives of production control, co-ordination of production control department with other departments in the manufacturing organizations -Process of inline checking - Pre-production inspection, In-Process Inspection, Pre-final inspection, Pre shipment Inspection.

Manufacturing operations - scheduling, work centres, facility layout, work load and work assignments.

Unit V Plant Loading and Capacity Planning

Determination of machinery requirements for a new factory, calculation of labour requirements, application of line balancing techniques. Techniques of industrial engineering in apparel industry - Time study, Motion study, Method/work study- Definition, Purpose, Techniques.

REFERENCES

1. T.Karthick et al, Apparel Manufacturing Technology, CRC Press, 2016.
2. Rajkishore Nayak & Rajiv Padhye, Garment Manufacturing Technology, Elsevier, 2015.
3. Harold Carr and Barbara Latham, The Technology of Clothing Manufacture, Blackwell Science Ltd., London, 2015.
4. N. Gaither and G. Frazier, Operation Management, Thompsan, Asia, 2004.
5. S. A. Chunwala and D. R. Patol, Production and Operation Management, Himalayas, (2004)
6. Decenzo and Robbins, Human Resource Management, Wiley, 6th edition, 2004.

7. V.Ramesh Babu, Industrial Engineering in Apparel Production, Woodhead Publishing, Elsevier Science &Technology, 2017.
8. Raj Kishore Nayak & Rajiv Padhye, Automation in Garment Manufacturing, Wood head Publishing, 2017.
9. Glock. E, Grace. L, Apparel Manufacturing, Dorling Kindersley Pvt. Ltd., India, 2012.
10. Kitty G .Dickerson, Inside the Fashion Business, Pearson Education Pvt. Ltd., India, 2005.
11. Mamoria, C. B. and Mamoria, S., Personal Management, Himalaya Publishing Co., 2005.
12. Jack Donnelly, Universal Human Rights in Theory and Practice, Cornell University Press, New York, 2003.

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Course code - 23P4CDP04	PORTFOLIO PRESENTATION PRACTICAL –MANUAL / DIGITAL	L	T	P	C
Core Practical - IV		-	-	6	5
Prerequisite	To learn and create the design on CAD software	Syllabus Version		2023-2024	
Course Objectives:					
The main objectives of this course are to:					
6. Design and develop portfolio with sketches, Concept, Mood Boards on basis of theme					
7. To become a fabric technician, garment technician, accessory maker, fashion merchandiser and fashion designer.					
8. Capability to start up Boutiques and designer shop.					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Understand the concept of making Portfolio.				K2
CO2	Application of inspiration for development of Mood./color / fabric board				K3
CO3	Creation of garment design based on customer profile				K6
CO4	Analyze the designs/fabrics for Portfolio development				K4
CO5	Evaluation of developed garment against customer profile				K5
CO6	Differentiate Geographical indication of goods for fashion design and Patenting fashion products				K5
K2: Understand, K3: Apply, K4: Analyse; K5: Evaluate; K6: Create					

I. Portfolio Presentation for any 4 Theme with the following components (Woven / knitted fabric) for Children/ Women's / Men's/special garments

- Designer Profile
- Name Board
- Customer Profile
- Mood Board
- Inspiration Board
- Fashion Illustration – 5 (front & back sketches)
- Colour Board
- Fabric Board
- Design Development / Story Board
- Accessory Board
- Garment ConstructionBoard
- Photo shoot collection board

REFERENCES

1. Portfolio Presentation for Fashion Designers., Linda Tain, PDF –e BOOK
2. Portfolio Presentation for Fashion Designers Paperback,LindaTain , Fairchild Publications2010
3. Design Your Fashion Portfolio Paperback – 1 Steven Faerm,A& C Black Publishers Ltd, 2012

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Course code - 23P4CDDEP5	DRAPING, DRAFTING, CONSTRUCTION AND FIT ANALYSIS PRACTICAL	L	T	P	C
Elective -VI		-	-	4	3
Prerequisite	To learn and create the knowledge on draping	Syllabus Version		2023- 2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. The learners could envision three-dimensional view of the creative designs and examine the fit of the garment for customized designs through draping techniques. 2. The learners acquire knowledge on advanced draping skills to perform creatively in apparel designing. 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Developing advanced draping skills for apparel designing				K2
CO2	Applying draping techniques to create fullness on garments				K3
CO3	Analyzation and collection of for garment design for draping				K4
CO4	Evaluation of cost fit of draped garments garment				K5
CO5	Create garment designs for draping and fit analysis				K6
K2 - Understand; K3 - Apply; K4 - Analyze; K5: Evaluate; K6– Create					

I. The following experiments are to be draped on the dress form, prepare pattern and construct the sample / garment and check the fit on dress form.

1. Incorporating Dart Variations in Bodice - Front bodice with underarm dart /Back bodice with Neckline dart/ Waist line dart/ Dart at waist line and Center front/ The French dart/ Double French dart/ Flange dart/ Neckline dart/ Bust line dart at Center front and Armhole dart.
2. Incorporating Fullness in Bodice – Pleats/ darts/ tucks/gathers- variations in Neckline / Armhole /Waistline.
3. Variations in skirt - Tapered skirt/ eased skirt/ Dirndl skirt/Dome skirt/ flared skirt / variations in flared skirt/ Peg skirt Sarong skirt /Pleated skirt.
4. Drape, develop pattern, construct and check fit on the body

Create garment style of your own for children/men/women

REFERENCES

1. Draping for Fashion Design, Jaffe, Jaffe Hilde, Pearson Education India, 2009
2. Draping: The Complete Course, Karolyn Kiisel, Laurence King Publishing, 2013
3. Draping for Apparel Design, Helen Joseph-Armstrong, Bloomsbury Academic, 2013
4. Cutting and Draping Party and Eveningwear: Dressmaking and pattern cutting for special occasion clothes Dawn Cloake Pavilion Books, 01-Oct-2016

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Course code - 23P4CDDEP6	INNOVATIVE PRODUCT DEVELOPMENT PRACTICAL	L	T	P	C
Elective - VI		-	-	4	3
Prerequisite	To analysis the product research and development	Syllabus Version		2023- 2024	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. To make analysis of market business 2. To understand and generate idea for product development 3. To source materials for product development 4. To develop and designs innovative product 5. To analyses cost of the product and report preparation 					
Expected Course Outcomes:					
On successful completion of the course, student will be able to:					
CO1	Market research				K4
CO2	Idea generation for product development				K6
CO3	Could source the material for the product				K2
CO4	Develop product				K3
CO5	Analyse cost of the product				K5
K2: Understand; K3: Apply; K4: Analyse; K5: Evaluate; K6: Create					

I. Development of innovative Product for textile industry

- Market research for development of innovative product
- Generate idea for product design and determine key criteria
- Design creation and technical specification
- Source materials for product development
- Prototype product development and conversion to second life/final product
- Cost analysis for product development
- Report development and Product presentation