SNDT Women's University, Mumbai

Undergraduate Degree / UG Programme (Syllabus as Per NEP) - Faculty of Science & Technology

Bachelor of Science
Home Science
(Textile Science and Fashion Design)

B.Sc. In H.Sc. – TSFD

As Per NEP – 2020

Semester – V & VI

Syllabus
(W.E.F. Academic Year 2025-26)

Terminologies

Vertical	Full-Form/Definition	Remarks	Related To Major And Minor Courses
Major (Core)	Subject Comprising Mandatory and Elective Courses, Major Specific IKS, Vocational Skill Courses, Internship/ Apprenticeship, Field Projects, Research Projects Connected to Major	Minimum 50% Of Total Credits Corresponding to Three/Four - Year UG Degree- Mandatory Courses	Related To The Major
Minor Course	Course From Same Or Different Faculty	Minimum 18-20 Credits to Be Completed in The First Three Years of UG Programme	Related To the Minor
OEC	Open Elective Courses/ Generic Courses	10-12 Credits to Be Offered in I And/Or II Year. Faculty-Wise Baskets of OEC To Be Prepared	OEC Is to Be Chosen Compulsorily from Faculty Other Than That of the Major
VSC	Vocational Skill Courses, Including Hands On Training Corresponding To The Major And/Or Minor Subject	8-10 Credits, To Be Offered in First Three Years, Wherever Applicable Vocational Courses Will Include Skills Based on Advanced Laboratory Practical's of Major	Related To the Major or Minor
SEC	Skill Enhancement Courses	06 Credits, To Be Offered in I And II Year, To Be Selected from The Basket of Skill Courses Approved by University	Related To the Major or Minor Any Relevant Skill
AEC	Ability Enhancement Courses	08 Credits, To Be Offered in I And II Year, English: 04 Credits to Be Earned in Sem - I, Modern Indian Language Of 04 Credits to Be Offered in II Year	NA
VEC	Value Education Courses	Understanding India, Environmental Science/Education, Digital	NA

		and Technological Solutions, Health & Wellness, Yoga Education, Sports, And Fitness	
IKS	Indian Knowledge System	Generic IKS Course: Basic Knowledge Of The IKS To Be Offered At First Year Level	Major-Specific IKS Courses: Advanced Information About the Major, Part of the Major Credit to Be Offered at Second- Or Third-Year Level
OJT	On-Job Training (Internship / Apprenticeship)	Corresponding To the Major Subject	Related To The Major
FP	Field Projects	Corresponding To the Major Subject	Related To the Major
CC	Co-Curricular Courses	Health And Wellness, Yoga Education Sports, And Fitness, Cultural Activities, NSS/NCC And Fine/ Applied/Visual/ Performing Arts	NA
CE	Community Engagement and Service		Related To Major
RP	Research Project	Corresponding To the Major Subject	Related To Major

Program Template

Program Degree.		B.Sc.
Parenthesis if any (Specialization)		Textile Science and Fashion Design
Preamble		Over the course of three years, the Textile Science and Fashion Design program delivers a thorough educational experience, meticulously designed with a strategic allocation of credits to ensure a well-rounded learning journey. Over the span of three years, students will undertake a curriculum that includes a blend of major and minor credit courses, fostering a holistic educational experience in Textile Science and Fashion Design. This course empowers students to gain expertise in traditional and contemporary textiles, fiber analysis, yarn study, fabric construction, and weave analysis. Additionally, students will familiarize themselves with both historical and modern fashion trends through activities such as fashion illustration and design. The curriculum is structured to equip students with the necessary subject knowledge and skills, ensuring their employability at each milestone within the program. This course will enable students to acquire knowledge of traditional, contemporized textiles, fiber, yarn study, fabric construction and weave analysis. Students will also get acquaint with traditional and current trends fashion through fashion illustration and fashion designing. They will opt adequate subject knowledge and skills so that they are employed at each exit point of the program.
Programme Specific Outcomes (PSOs)		After completing this programme, Learner will
	1	Develop knowledge of traditional costumes, textiles and embroideries as well as of current fashion trends.
	2	Analyze varied aspects of fashion studies, fashion illustration and accessories used in fashion industry.
	3	Inculcate the skills of sketching, textile designing, fabric or namentation and fashion apparel designing.
	4	Develop capacities in the areas of Textile and Garment Quality Control, Wet Processing and Fabric Construction and Analysis.
	5	Apply competencies as graduates to address knowledge and community at large
	6	Provide employment opportunities to become work with successful entrepreneurs and to provide platform

		in textile manufacturing industries.
	7	Participate effectively as responsible professionals who can contribute substantively to the national development.
Eligibility Criteria for Programme		XII th pass from any stream with English as a compulsory subject from any recognized higher secondary board.
Intake		120

Structure with Course Titles

B.Sc. In Home Science - Textile Science and Fashion Design

Semester – V

Sr. No.	Course	Type of Course	Credits	Marks	Int Marks	Ext Marks
	Semester – V					
50130711	Fabric Construction and Analysis (Th+Pr) (2+2)	Major (Core)	4	100	50	50
50130712	Textile Garment and Quality (Th+Pr) (2+2)	Major (Core)	4	100	50	50
51030711	Indian Historic Costumes (Th)	IKS (Major Specific)	2	50	0	50
50230711	Textile Design for Printing (Th+Pr) (2+2)	Major (Elective) **(Any One)**	4	100	50	50
50330721	Textile Surface Design and Craft (Pr)					
50630701	Application of Tie and Dye in Home Textile (Pr)	Minor Stream	**4**	100	50	50
51330701	Fashion Apparel Design (Pr)	VSC-4	2	50	50	0
50130711	Field Project (Pr)	FP	2	50	50	0
			22	**550**	**300**	**250**

Sr. No.	Course	Type of Course	Credits	Marks	Int Marks	Ext Marks
	Semester - IV					
		Major (Core)	4	100	50	50
		Major (Core)	4	100	50	50
		Major (Elective) (Any One)	4	100	50	50
		Minor Stream	2	50	0	50
		Minor Stream	**4**	100	50	50
		OJT	4	100	50	50
			22	**550**	**250**	**300**

Exit with Degree (3-year)

Course Syllabus

Semester – V

.5.1 Major (Core)

Course Titles	**Fabric Construction and Analysis (Th+Pr)**
Course Credits	**4 Credit's (2 Th + 2 Pr)**
Course Outcomes	After going through the course, learners will be to
	1. Aquaint about different types of traditional and modern looms.
	2. Acquire basic knowledge about different operations involved in fabric weaving.
	3. Analyze different types of weave patterns.
	4. learn the principles of creating color and weave effect.
Module 1(Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Acquire knowledge about various fabric manufacturing techniques from past to present.
	2. Learn the parts of handloom and weaving motions.
	3. Prepare draft for different weave design.
Content Outline	• **Introduction to Fabric Manufacturing** o Fabric Manufacturing techniques from past to present. o Introduction to history of weaving. o Parts of loom and weaving operation. o Different types of simple handloom • General principles of working of following looms- handloom, semi-automatic loom, power loom, shuttle less looms- air jet, water jet and gripper loom (in brief) • Drafting – Definition and introduction of drafts- straight, pointed, herringbone, skip, satin and broken. **Students will collect samples of different weaves.**
Module 2(Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Gain knowledge about basic weaves and fancy weaves.
	2. Learn to make a point paper design, draft and peg plan of the same.
	3. Acquire knowledge about application of different types of weaves and various commercial fabrics
	4. Create various color and weave effect using basic weaves.

Content Outline	• **Fabric Construction- Weaves and their different types** o Plain weave and their derivatives- Rib weave- Warp and weft rib, Basket weave, ornamentation of plain weave. o Twill weave and its variation- herringbone, broken, combined, figured- diamond and diaper twill o Satin- regular satin and sateen, irregular satin and sateen o Huck-a-back o Honey comb- ordinary and brighton honeycomb o Crepe o Mock-leno o Dobby Mechanism o Jacquard- Ordinary and single lift jacquard • **Color and weave effect-** o Continuous line effect o Hound's tooth effect o Bird's eye and spot effect o Hairline effect o Step patterns o All over effect • **Innovations in weaving / Advanced woven structures** o 3D woven fabrics o Eco-friendly yarns and recycled fibers o Zero-waste weaving concepts o Automation and Industry 4.0 in weaving **Students will analyze different types of weaves collected**
Module 3 (Credit 1) Practical	
Learning Outcomes	After learning the module, learners will be able to
	1. Understand the preparatory processes of weaving.
	2. Aquaint with the weaving calculations.
	3. Learn to set and operate handloom for weaving.
	4. Skills were imparted through the construction of various basic and fancy weave designs.
Content Outline	• **Weaving Calculations** o Yarn and cloth calculations • **Preparatory process for weaving**

	○ Warp and weft preparation ○ Winding of warp and weft yarns ○ Sizing ○ Drawing and looming • **Setting up of loom for weaving** ○ Beaming ○ Drafting ○ Denting ○ End Piecing, all to be done on table loom • **Weaving of samples by using the following weaves** ○ Plain Basket ○ Rib ○ Twill (even and uneven) ○ Satin ○ Diamond ○ Huck- a- back ○ Honeycomb ○ Mock leno ○ Crepe ○ Herring bone **Sample size of weaving- length- 2 inch and width- 6 inch to 8 inch, 10s to 12s count yarn can be used.**
Module 4 (Credit 1) - Practical	
Learning Outcomes	After learning the module, learners will be able to
	1. Identify the weaves.
	2. Analyze the woven designs and make design, draft and peg plan.
	3. Understand the concept of design repeat.
	4. Learn to calculate thread count and crimp percentage.
Content Outline	• **Analysis of 15 samples of the following weaves and their variations showing design, draft, peg plan and design repeat.** ○ Plain Rib and basket ○ Twill (even and uneven) ○ Herringbone

	○ Diamond ○ Diaper ○ Satin and sateen ○ Huck- a- back ○ Mock leno ○ Crepe ○ Innovation in weaving by using slivers ○ Evaluation

Evaluation:

- Module 3 and 4 = Comprehensive continuous evaluation
- Internal examination of module 1 and 2 = 25 marks
- Internal Practical exam = 25 marks
- Total Internal Evaluation = 50 marks
- External theory evaluation Module 1 & 2= 50 marks
- Internal +External = 50+50 = 100 marks

References-

1. Aswani, K. T. (1986). Plain weaving motion. Textile Trade Press.
2. Behera, B. K., & Hari, P. K. (2010). Woven textile structure: Theory and applications. Woodhead Publishing.
3. Grosicki, Z. J. (1975). Watson's textile design and colour: Elementary weaves and figured fabrics (7th ed.). Newnes-Butterworths.
4. Grosicki, Z. J. (1977). Watson's advanced textile design: Compound woven structures. Woodhead Publishing.
5. Held, S. E. (1978). Weaving: A handbook of the fiber arts (2nd ed.). Holt, Rinehart and Winston.
6. Mishra, S. P. (2025). Design and structure of textile fabrics. CRC Press.
7. Sengupta, R. (1961). Weaving calculations (4th ed.). D. B. Taraporevala Sons & Company.
8. Tovey, J. (1965). The techniques of weaving. B. T. Batsford Ltd.
9. Wilson, J. (1967). Weaving is for anyone. Van Nostrand Reinhold Company

Course Syllabus

Semester – V

.5.2 Major (Core)

Course Titles	**Textile Garment and Quality Control (Th)**
Course Credits	**4 Credit's**
Course Outcomes	After going through the course, learners will be able to
	1. Identify and describe the different physical properties of fiber, yarn, and fabric.
	2. Evaluate the effectiveness and differentiate the utility of various physical testing equipment.
	3. Interpret and assess the results obtained from various testing procedures.
	4. Analyze and interpret the results obtained from various tests to draw meaningful conclusions
Module 1 (Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Explain the importance of standards, quality control, and specifications.
	2. Select appropriate samples for testing based on standard procedures.
	3. Assess the impact of environmental conditions on testing accuracy.
	4. Identify and differentiate the physical properties of various fibers.
Content Outline	• **Definition and importance of standards and quality control, specifications and standard laid by institutions of Textiles (IS, ISO, B.S, E.N., DIN, AATCC, ASTM).** o Testing and quality control institutes in o India and Abroad. o Selection of Samples for Fabric Sampling • **Moisture relations and testing (environmental conditions for testing)** o Definition: Moisture regain, Moisture content, standard atmosphere, Testing atmosphere, Absolute humidity. o Relative Humidity: Determination of relative humidity. o Factors affecting relative humidity Moisture in Textiles: Importance of moisture regain and moisture content, Effect of moisture on Textile Properties, Factors affecting regain of textile materials, Measurement of regain.

	• **Fiber Testing** - Definition, objectives and methods of testing staple length, effective length, and percentage short fibers by Comb Sorter method. Resiliency. Interpretation of results according to end use. **Assignment: Report on the Effect of Moisture on Natural and Man-Made Fabrics - 10 Marks**
Module 2 (Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Inspect, measure, and evaluate the characteristics and properties of textile materials using standardized testing methods.
	2. Analyse fabric performance to determine its suitability for specific end uses.
Content Outline	• **Yarn testing** - Definition and objectives of testing, Methods of Testing yarn Liner density in different systems Direct & indirect, twist and crimp. o Explanation of Load, breaking load, stress strain, tenacity, elastic recovery, count strength product (CSP). o Interpretation of results according to end use. • **Fabric Testing** - Definition and objectives of testing, Methods of testing fabric count, thickness, crease recovery, stiffness. o CRL, CRT, CRE principle for tensile strength testing machine. Tensile strength tester (CRL & CRT type), Tear strength tester (Elmendorf) o Colorfastness Tests o Colorfastness to Washing, (5 tests) o Color fastness to light and perspiration. o Colorfastness to Rubbing o Interpretation of results according to end use. • **Garment Testing** - Inspection with reference to quality control in Apparel Industry. Fabric inspection, correlation between fabric quality and apparel quality. o Sewing threads, zippers, buttons and interlining. In process inspection (in brief). o Interpretation of results according to end use **Assignment: Create a photo project on newly used instruments in textile testing with its working features – 15 Marks**
Module 3 - Textile Garment and Quality Control (Practical)	
Learning	After learning the module, learners will be able to

Outcomes	1. Demonstrate proficiency in operating testing equipment.
	2. Build the knowledge in testing fiber ,yarn.
	3. Interpret and compare the results obtained from testing fiber amd yarn.
Content Outline	• **Fiber and Yarn testing** o Staple length of fiber (2 samples) o Cotton yarn count o Yarn denier o Yarn twist (Ply yarn & Single yarn) o Crimp (1 sample) o Yarn Strength (Hank/Lea) & CSP (Sewing thread to be tested as one of the sample wherever possible)
Module 4 - Textile Garment and Quality Control (Practical)	
Learning Outcomes	After learning the module, learners will be able to
	1. Inspect, measure, and evaluate the characteristics and properties of textile materials using standardized testing methods.
	2. Analyse fabric performance to determine its suitability for specific end uses.
Content Outline	• **Fabric Testing** o Fabric count (2 samples) o Weight/ Sq. meter (4 samples- Woven, Knitted, Interlining, Blended) o Thickness (Any 3 samples- Woven/ Knitted/ Interlining/ Blended) o Tensile strength (2 samples- Cotton, Blended, polyester) o Tearing strength (2 samples Cotton, Blended, polyester) o Crease recovery (2 samples- Cotton, Blended, polyester) o Stiffness o Dimensional stability (Cotton) o Color fastness to Washing (Any one from 5 tests) o Color fastness to Rubbing

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

Evaluation

- External Theory Exam on Module1 & 2= 50marks

- Internal practical exam 25 marks + Module 3 and 4- Comprehensive Continuous Evaluation (CCE) 25 marks = 50 marks.

REFERENCES:

1. Amutha, K. (2016). A practical guide to textile testing. Woodhead Publishing India Pvt. Ltd.
2. Raul, J. (2017). Textile testing. APH Publishing Corporation.
3. Gopalakrishnan, D., Vinayagamurthi, P., & Kandhavadivu, P. (2021). Textile testing. Daya Publishing House.
4. Booth, J. E. (1996). Principles of textile testing (3rd ed.). CBS Publishers & Distributors.
5. Grover, E. B., & Hamby, D. C. (2011). Handbook of textile testing and quality control. Wiley India Pvt. Ltd.
6. Basu, A. (2006). Textile testing: Fibre, yarn & fabric (2nd ed.). The South India Textile Research Association.
7. Angappan P. (1990) Physical Testing, Vol. 2, Revised, S. S. M. Institute of Textile Technology.
8. A.S.T.M. - Standards, American Society for testing materials, Philadelphia, New York.
9. BIS Handbook of Textile Testing, Part 4, Bureau of Indian Standards, New Delhi, India.
10. Booth J.E. (1982) Principles of Textiles Testing, Butterworth Scientific, London.
11. Collier Billie, Epps, Helen (1999) Textile Testing and Analysis, Upper Saddle River, Merill Publishing
12. Goswami, Martindi, Scandino (1977) Textile Yarns - Technology, structure and application, Wiley Inker Science Pub.
13. Grover & Hamby (1990) The Hand Book of Textile Testing and Quality Control, Wiley Fasting Pvt. Ltd., New Delhi, India.
14. I.S.I. Bulletin, Indian Standard Institution, New Delhi, India.

Course Syllabus

Semester – V

.5.3 Indian Knowledge System (IKS) - Major Specific

Course Titles	**Indian Historic Costumes (Theory)**
Course Credits	**2 Credit's**
Course Outcomes	After going through the course, learners will be able to
	1. Enable students to gain knowledge on historic costumes and textiles of India.
	2. Study the design and constructional details of textiles & costume of India.
Module 1(Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Enable students to gain knowledge on historic costumes
	2. Acquire knowledge of the textiles of India
Content Outline	• History of Indian costumes: Types of ornaments, Tattooing, mutilation and other skin decoration • Earlier decoration of textiles • Historic approach from ancient period to 20th Century. • Costume in Harappa and Mohan-jo-daro • Costume of Aryans **Prepare a report of the ancient Indian costumes and ornaments**
Module 1(Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Study the design and constructional details of textiles
	2. Learn the details of initiation of costume of India
Content Outline	• Costume during 600 BC to 320 AD (Buddhist and Jains) • Costume during 320 AD to 1100 AD (Brahmin Context) • Costume during 1100 AD to 1730 AD (Islamic Influence) • Costume 1730 AD to 1947 AD (British Period) **Prepare a pictorial documentation illustrating any one selected draping style from the costumes comparing it with the modern costume.**

Evaluation:

- No Internal evaluation
- External Theory Evaluation Module 1& 2 = 50 marks

References:

1. Bosomworth Dorothy (1995): The Encyclopedia of Patterns and Motifs, Studio Editions, London
2. Ginsburgh, M. (1977): Embroidery, Marshall Cavendish Editions, London.
3. Guy John (1998): Woven Cargos, Thames and Hudson.
4. Harris Jennifer (1993): Textiles 5000 years, Henry and Brans Inc., New York.
5. Jones Owen (1997): The Grammar of Ornament, Bernard Quatrich, London.
6. Lewis, E. (2003). The Romance of Textiles: The Story of Design in Weaving. Harvard (18th ed). New York: Macmillan.
7. Paine Sheila (1990): Embroidered Textiles Traditions, Thames and Hudson, London.
8. Stone Miller Rebecca (1994): To weave for the Sun, Thames and Hudson, London.
9. Readers Digest (2000): History of Man- The Last Two Million Years.
10. Thames and Hudson, (1999). Traditional Indian textiles, London.
11. History of Fashion, Anderson Black J, Orbis publishing Ltd, USA 1985.
12. Ritu Kumar, (2006) Costumes & textiles of Royal India, , Christies Book Ltd, London.
13. Roshen Alkazi, (2006). Ancient and Medieval Indian Costume, Vol. I and II Art Heritage
14. Swarup, S. (2012) Costumes and Textiles of Awadh. Rolli books, Bangalore.

Semester – V

.5.4 A. Major (Core)

Course Titles	**Textile Design for Printing (Th+Pr)**
Course Credits	**4 Credit's (2 Th + 2 Pr)**
Course Outcomes	After going through the course, learners will be able to
	1. Explain the history of textile design, role of designers in India, and career opportunities
	2. Develop structured design briefs and create colour palettes and colourways
	3. Design and develop original motifs and apply appropriate placement techniques
	4. Construct various repeat patterns and surface layouts
Module 1(Credit 1) Textile Design for Printing (Theory)	
Learning Outcomes	After learning the module, learners will be able to
	1. Explain the brief history of textile design and describe the role of textile designers in India and related industries.
	2. Identify career opportunities in textile design and allied sectors.
	3. Understand and apply the elements of design (line, shape, form, texture, space, and color) in textile compositions.
Content Outline	• **Brief history of textile design**, Role of designers in India, Careers in Textile Design & Related Industry. • **Elements & Principles of Design** o line, shape, form, texture, space, color o Principles of design: balance, rhythm, harmony, contrast, emphasis, proportion o Application of design principles in textiles o Understanding surface development • **Preparation of design brief.** o Color o Color forecast. o Color in market place. o Producing color ways. o Process of designing printed fabrics **Collect photographs of textile designs used in home furnishings and identify the elements and principles of design applied in each image. Prepare a project featuring a total of 10 different designs.-15 marks**

Module 2(Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Explain the meaning, sources, and different types of motifs (natural, geometric, abstract, and stylized).
	2. Develop original motifs using appropriate methods of motif development.
	3. Apply suitable motif placement techniques in textile design compositions.
	4. Demonstrate creativity and technical understanding in preparing structured motif layouts
Content Outline	• **Motif Development** o Meaning and sources of motifs o Types of motifs: natural, geometric, abstract, stylized o Methods of motif development o Motif placement techniques • **Textile Printing** o Repeats- definition o Repeats and bases. o Techniques for repeat. o Presentation of designs. • **Software Used in Textile Designing** o Designing & Illustration Software o Adobe Photoshop, Adobe Illustrator , CorelDRAW, 3D Printing Software. **Evaluation of 20 printed designs. – 10 marks**
Module 3 (Credit 1) Textile Design for Printing (Practical)	
Learning Outcomes	After learning the module, learners will be able to
	1. Develop colour palettes using various colour schemes (monochromatic, complementary, analogous, triadic, etc.).
	2. Apply appropriate colour combinations and create multiple colourways for textile designs.
	3. Demonstrate understanding of colour harmony and its impact on textile products.
Content Outline	• **Creation of colour palates based on various colour scheme** o Rendering techniques for printed designs o Motif development.

	○ Preparation of samples of different types of placements. ○ Colour application and colourways.
Module 4 (Credit 1)	
Learning Outcomes	1. Develop and execute different types of repeats used in textile printing.
	2. Create effective surface design layouts suitable for various textile products.
	3. Demonstrate technical accuracy and creativity in arranging motifs into structured repeat patterns.
Content Outline	• **Printing** ○ Repeat creation (9 types) ○ Surface design layouts. ○ Theme-based textile design project (Apparel, Home Furnishing) ○ Final portfolio presentation **Prepare a sample of each printing method = 25 marks**

Evaluation:-

- Module 1 and 2- Internal Theory evaluation=25 marks
- Module 3 and 4- Comprehensive Continuous Evaluation (CCE) =25 marks
- External theory Exam on Module 1 & 2= 50 marks

References:-

1. Bowles, M., & Isaac, C. (2012). Digital textile design (2nd ed.). Laurence King Publishing.
2. Joyce, C. (1993). Textile design: The complete guide to printed textiles for apparel and home furnishings. Watson-Guptill.
3. Jayalakshmi, I. (n.d.). Textile printing. Shashwat Publication.
4. Choudhury, A. K. R. (2023). Principles of textile printing. CRC Press.
5. Ujiie, H. (Ed.). (2006). Digital printing of textiles. Woodhead Publishing.

Semester – V

.5.4 B. Major (Elective)

Course Titles	**Textile Surface Design and Craft (Pr)**
Course Credits	**4 Credit's**
Course Outcomes	1. Understand different surface ornamentation and traditional craft techniques used in interior textiles.
	2. Apply creative surface design methods on textile materials for interior applications.
	3. Develop handcrafted textile products using embroidery, printing, dyeing, and embellishment techniques.
	4. Prepare innovative interior textile products with proper presentation and documentation.
Module 1(Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Identify different surface ornamentation techniques and crafts.
	2. Understand tools, materials, and colour combinations used in textile decoration.
	3. Perform basic embroidery and embellishment techniques.
Content Outline	• Woven tapestry • Mirror work, bead work or appliqué work **Preparation of samples- 10 marks**
Module 2(Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Apply different fabric printing and dyeing techniques.
	2. Develop creative patterns for interior textiles.
	3. Experiment with colour and texture effects.

Content Outline	• **Surface Design Techniques**
	  ○ Stencil printing
	  ○ Fabric painting
	Develop decorative textile samples using given techniques- 10 marks

Module 3 (Credit 1)	
Learning Outcomes	1. Understand basic macrame knots and hand quilting techniques.
	2. Develop skills in creating decorative textile samples using knotting and quilting methods.
	3. Apply macramé and quilting techniques for creative surface

	ornamentation projects.
Content Outline	• **Macrame** o Larks Head Knot, Square Knot, Alternating Square Knot, Spiral Knot o Hand Quilting **Preparation of samples of each techniques- 10 marks**
Module 4 (Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Combine craft and ornamentation techniques in textile products.
	2. Design utility-based interior textile items.
	3. Develop creativity in material and surface exploration.
Content Outline	• **Product Development** o Cushion covers o Table runners o Wall hangings o Lampshade covers o Curtains and fabric panel o Wall frame **Develop any one product – 20 marks**

Evaluation-

- Internal Continuous evaluation = 50 marks
- External Practical Examination = 50 Marks

References-

1. Kadolph, S. J. (2014). Textiles (12th ed.). Pearson Education.
2. Wells, K. (2014). Fabric Dyeing and Printing. Conran Octopus.
3. Gibbs, M. (2010). The Complete Guide to Macramé. Search Press.
4. Chattopadhyay, K. (2011). Handicrafts of India. Indian Council for Cultural Relations.
5. Barney, D. (2013). Illustrated Guide to Sewing and Embroidery. Anness Publishing.
6. Smith, A. (2015). Creative Textile Arts. The Crowood Press.
7. Harris, J. (2010). 500 Handmade Books: Inspiring Interpretations of a Timeless Form. Lark Crafts.
8. Phipps, E. (2012). Patchwork and Quilting Basics. David & Charles Publishers.
9. Dean, J. (2018). The Beginner's Guide to Textile Techniques. Search Press.
10. Gillow, J., & Sentance, B. (2008). World Textiles. Thames & Hudson.

Semester – V

.5.5 Minor Strem

Course Titles	**Application of Tie-Dye in Home Furnishing**
Course Credits	**4 Credit's**
Course Outcomes	After going through the course, learners will be able to
	1. Understand the fundamentals, techniques, and design principles of tie-dye for textile applications.
	2. Develop proficiency in executing diverse tie-dye techniques and creating experimental samples.
	3. Apply tie-dye techniques in the development of functional and aesthetically appealing home furnishing products.
	4. Create and present a professional tie-dye home furnishing collection with proper documentation and market relevance.
Module1(Credit1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Execute various tie-dye techniques accurately.
	2. Prepare structured tie-dye samples using different resist methods.
	3. Develop multiple colour combinations and colourways.
Content Outline	• **Module 1: Introduction to Tie-Dye & Design Fundamentals** o History and origin of Tie-Dye (Indian & Global context – Bandhani, Leheriya, Shibori) o Tie-Dye techniques o Tools, materials, and dyes used o Safety measures and fabric selection o Elements & Principles of Design in Tie-Dye o Colour theory and colour combinations **Collection of tie-dye samples used in home furnishing from different brands – 10 Marks**
Module2(Credit1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Execute various tie-dye techniques accurately.
	2. Prepare structured tie-dye samples using different resist methods.
	3. Develop multiple colour combinations and colorways.
Content Outline	• **Module 2: Tie-Dye Techniques & Sample Development** o Basic tying methods (spiral, crumple, folding, pleating,

	binding) o Resist techniques (using nails , stitch resist, clamp resist, marbling) o Dye preparation and application methods o Preparation of minimum 8–10 tie-dye samples o Development of colourways **Preparation of 8–10 Tie-Dye Samples – 15Marks**
Module3(Credit1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Plan and apply tie-dye designs according to product requirements.
	2. Develop suitable placement patterns for home furnishing items.
	3. Execute finished home furnishing products with proper finishing
Content Outline	• **Module 3: Application in Home Furnishing Products** o Product selection (Cushion covers, Curtains, Table runners, Bed sheets, Upholstery panels) o Placement techniques (central, border, corner, all-over) o Design layout planning o Fabric measurement and costing o Product development (Minimum 2–3 finished products) **Development of 2–3 Finished Home Furnishing Products – 10 Marks** **Placement Planning & Product Presentation – 5 Marks**
Module 4 (Credit1)	
Learning Outcomes	1. Develop a cohesive tie-dye based home furnishing collection.
	2. Prepare professional documentation and visual presentation.
	3. Critically evaluate the developed products based on design and market suitability.
Content Outline	• **Module 4: Collection Development & Portfolio Presentation** o Theme-based home furnishing collection o Documentation (design brief, swatches, process sheets) o Final product presentation o Portfolio compilation and evaluation **Internal Presentation = 10 Marks**

Evaluation-

- Internal Continuous evaluation = 50 marks
- External Practical Examination = 50 Marks

Reference:

1. Polson, R., & Whittaker, M. (1993). The art of fabric dyeing: Techniques and projects. Interweave Press.
2. Dean, J. (2014). Tie-dye: The how-to book. CreateSpace Independent Publishing Platform.
3. Wada, Y., Rice, M. K., & Barton, J. (1983). Shibori: The inventive art of Japanese shaped resist dyeing. Kodansha International.
4. Rogge, E. (2011). Fabric art workshop: Exploring techniques and materials for fabric artists and quilters. North Light Books.
5. Sreenivasulu, G. (2015). Tie and dye techniques in textile design. Himalaya Publishing House.
6. Joyce, C. (1993). Textile design: The complete guide to printed textiles for apparel and home furnishing. Watson-Guptill Publications.
7. Udale, J. (2014). Textile design: From concept to creation. Bloomsbury Publishing.
8. Briggs-Goode, A. (2013). Printed textile design. Laurence King Publishing.
9. Bowles, M., & Isaac, C. (2012). Digital textile design (2nd ed.). Laurence King Publishing.
10. Karolia, A. (2019). Traditional Indian handcrafted textiles: History, techniques, processes and designs. Niyogi Books.
11. Wilhide, E. (2012). Textiles and fashion. Thames & Hudson.

Course Syllabus

Semester – V

.5.6 VSC

Course Titles	**Fashion Apparel Design**
Course Credits	**2 Credit's**
Course Outcomes	After going through the course, learners will be to
	1. Acquire skills in handling different types of fashion fabrics.
	2. Develop skills in sewing and pattern making.
	3. Understand flat pattern method and design for self and others.
	4. Finish the garments as per standard methods.
Module 1(Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Design, select fabric and trimmings as per fashion.
	2. Adapt basic patterns and stitch salwar and kurta by standard methods.
	3. Adapt basic skirt draft to different patterns and construct the same.
Content Outline	• **Construct the following apparels considering suitability of patterns personality wise** o Kurti designed with Princess line/pintucks/ gathers/ pleats/ anagarkha style/Anarkali style o Patiala/ cigar pants/ straight pants/palazzo o Skirt- pattern with pleats/ yokes/gathers/ wrapper round/ Umbrella/ tiered **Every garment will be of 10 marks**
Module 2(Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Adapt, cut, stitch and finish the party wear garment as per fashion trend.
	2. Handle and use lining and trimmings.
	3. Procure suitable fabrics, cut, stitch and finish the garment by standard methods.
Content Outline	• Construct two party wears- one ethnic wear, one modern party wear by upcycling old sarees, dupatta, jeans, skirts with lining and use of trimmings – frills/ruffles/laces/ show buttons/ 3D pattern etc. **Each party wear carries 10 marks.**

Evaluation:

- Module 1 garments (10 marks each) = 30 marks
- Module 2 garments carry (10 marks each) = 20 marks
- Total Internal evaluation Module 1 and 2 (30 marks+20 marks) = 50 marks
- No external evaluation

References-

1. Helen Joseph Armstrong, Pattern making for Fashion Design, edition 4.
2. Natalie Bray, Dress Pattern Designing (Classic Edition) the Basic Principles of cut and sew.
3. Wendy Ward, The Beginner's Guide to Dress Making.
4. Alison Smith, Dressmaking- the complete step -by- step guide.
5. Clive Hallett and Amanda Johnston, Fabric for Fashion- the swatch book.
6. Ruth Singer, Sew it Up- a modern manual of practical and decorative sewing techniques.

Semester – V

.5.7 Field Project (FP)

Course Titles	**Field Project**
Course Credits	**2 Credits**
Course Outcomes	After going through the course, the learners will be able to
	1. Conduct structured field visits and document industrial processes with clarity and accuracy.
	2. Analyze industrial workflows and identify key operational parameters for quality and efficiency.
	3. Communicate technical information effectively through written documentation and oral presentations.
	4. Demonstrate professional ethics, workplace discipline, and safety awareness during field engagement
Module1(Credit1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Understand and describe the workflow and processes in textile and fashion industry sectors.
	2. Observe, record, and analyze operational procedures in real industry settings.
Content Outline	• Industry Immersion & Orientation o Understanding industry sectors: dyeing mills, printing units, garment manufacturing units, fashion boutiques, Brand showrooms. o Safety, shop floor discipline, process workflows o Observation and documentation techniques o Project identification & planning **Site visits to any one textile unit twice a week and report writing: 25 marks**
Module 2(Credit1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Apply documentation and analytical skills to prepare structured process reports.
	2. Present professional project documentation.
Content Outline	• **Project Presentation & Evaluation** o Final compilation of project findings o Professional documentation o Presentations and viva

	Power point presentation and submission of project report: 25 marks

Comprehensive Continuous Evaluation (CCE):

- Continuous internal evaluation of 50 marks
- Module 1 = 25 marks
- Module 2 = 25 marks
- Total: Internal = 50 marks
- No External examination

Reference:

1. Kothari, C. R. (2004). Research methodology: Methods and techniques (2nd ed.). New Age International Publishers.
2. Leedy, P. D., & Ormrod, J. E. (2015). Practical research: Planning and design (11th ed.). Pearson Education.
3. Raman, M., & Sharma, S. (2015). Technical communication: Principles and practice (3rd ed.). Oxford University Press.
4. McMillan, J., & Weyers, J. (2012). Report writing for business and management students (2nd ed.). Pearson Education.
5. van Emden, J., & Becker, L. (2016). Presentation skills for students (3rd ed.). Palgrave Macmillan.
6. Rizvi, A. (2017). Effective technical communication (2nd ed.). McGraw Hill Education.
7. Nayak, R., & Padhye, R. (2015). Garment manufacturing technology. Woodhead Publishing.
8. Frings, G. S. (2013). Fashion: From concept to consumer (10th ed.). Pearson Education.
9. Slater, K. (1999). The textile institute book of textile testing and quality management. Woodhead Publishing.
10. Bovee, C. L., & Thill, J. V. (2018). Business communication today (14th ed.). Pearson Education.