

**DEPARTMENT OF CLOTHING AND TEXTILES
FACULTY OF FAMILY AND COMMUNITY SCIENCES
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, VADODARA**

**Programme: B.Sc. (Family and Community Sciences) – CLOTHING AND TEXTILES
First Year Course Syllabus with PSO**

Programme Specific Objectives (PSO) - CLOTHING AND TEXTILES

- PSO 1 Discover various fabric types and apply this understanding to select clothing appropriate according to age, occasion, season, and personal style.
- PSO 2 Gain the skills to recognize design elements in clothing, using them to enhance personal style, and also comprehend the importance of care and storage of garments.
- PSO3 Acquire fundamental sewing skills essential for clothing construction, including identifying sewing machine components and troubleshooting common sewing problems.
- PSO 4 Gain knowledge of natural and man-made fibers, yarns, and fabrics by recognising their types, properties, and manufacturing processes
- PSO 5 Advance understanding of fiber morphology, including monomer, polymer structures, polymerization processes and its application to select appropriate textiles for its end uses
- PSO 6: Developing comprehensive understanding of the importance of design and the role it plays in visual appeal and communication of clothing and textile products.
- PSO 7 Acquire skills in using design basics to make appealing compositions for Clothing and Textiles.
- PSO 8: Apply knowledge gained of body type and personal attributes to craft a tailored image, employing illusion dressing techniques and refining wardrobes to reflect personal style.
- PSO 9 Understand the multifaceted nature of fashion and its intersections with culture, society, economics, and technology as a consumer from an interdisciplinary perspective
- PSO 10 Gain interdisciplinary knowledge of Traditional Indian Textiles and Costumes, and its, contemporary trends.
- PSO 11 Acquire practical understanding and adaptability to the professional expectations, work dynamics, and ethical principles within the chosen field, integrating contemporary trends and emerging technologies.
- PSO 12 Develop a sense of social issues and philanthropic versatility that will facilitate the development of an attitude towards citizenship responsibility
- PSO 13 Integrate sustainability principles into day to day interaction of clothing, textiles, and fashion, fostering a holistic understanding of the industry's impact and empowering self to drive positive change.

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

COURSE SYLLABUS FOR FIRST YEAR B.Sc. (Family and Community Sciences) – CLOTHING AND TEXTILES

Year (level)	Semester	Course Name	Credit	Course type
I (4.5)	1	Introduction to Clothing	4(3+1)	Major 1
		Introduction to Textiles	4(4+0)	Major 2
		1 Minor from a basket of 6 courses		
		Fashion Concepts and Consumer	4(4+0)	Minor 1
		Sustainable Development Goals	4(4+0)	MDC 1
		Fundamentals of Communication Skills in English	2 (2+0)	AEC 1
		Computer Literacy I	2 (1+1)	SEC 1
		Indian Knowledge Systems from Family and Community Perspective	2 (2+0)	IKS 1
		TOTAL	22 (20+2)	
	2	Textile Science	4(3+1)	Major 3
		Fundamental of Design in Clothing and Textiles	4(1+3)	Major 4
		1 Minor from a basket of 6 courses		
		Historic Textiles and Costumes of India	4(4+0)	Minor 2
		Image Styling	4(4+0)	MDC 2
		Developing Communication Skills in English	2 (2+0)	AEC 2
		Computer Literacy II	2 (1+1)	SEC 2
		Environment Science	2 (2+0)	VAC 1
		TOTAL	22 (17+5)	
UG Certificate		SUMMER INTERNSHIP (required on Exit)	4 (0+4)	Experiential Learning

*  Common Courses

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc. (Clothing and Textiles) - First Year – Level 4.5											
Year	I	Introduction to Clothing (Major 1)			Credits /Hours per week Hours per semester			4 (3+1) 5 hours/ week Theory : 45 Hours Practical : 30 Hours Total: 75 hours			
Semester	I	Year of Introduction: 2024-25 Year of Syllabus Revision:			Maximum Marks			100 Marks			
Mode of Transaction		Lecture and Tutorial									
Course outcome(CO) CO1 Become aware of basic terminology related to clothing and differentiate between woven, knitted and felted fabrics. CO2 Able to identify design elements in a garment and apply them in styling their appearance. CO3 Understand the importance of care and storage of their clothes. CO4 Gain an understanding of the factors to be considered in making a selection of fabric and clothes suitable for different age groups, occasion, season and personality. CO5 Able to recognize the parts of sewing machine and identify sewing problems CO6 Able to appreciate garment details and understand the importance of personal appearance. CO7 Apply the learnt knowledge while purchasing fabrics and stitching clothes.											
THEORY											
Unit No.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent)/ Skill Development (SD)	Relevance to Local (L)/ National (N)/ Regional(R)/Global (G)	Relation to Gender (G), Environment Sustainability (ES), Human Values (HV)and Professional Ethics (PE)
I	Introduction to Clothing 1. Terminology – Clothing, Fabric and Fashion 2. Types of fabric construction Understanding difference between Woven (basic weaves), Knitted (warp knits and weft knits) and Felted (mechanical and chemical felts) fabrics.			12	20	1,2	1	1,2,	Employability	Global	Environment Sustainability
II	Basic Design 1. Elements of Design 2. Principles of Design			12	20	1,2,4	2,3,6	1,2	Employability	Global	Environment Sustainability Human Values
III	Garment Styling 1. Understanding styling for different occasion through picture collection a. Garment Types and Silhouettes			9	15	1,2,3	4	1,2	Employability	Global	Environment Sustainability

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

	b. Skirt lengths and lengths of bifurcated garments c. Garment features: Necklines, Sleeves, collars, pleats, pockets, closures etc.								
IV	Selection and Care of Clothing 1. Factors affecting the selection of fabrics 2. Clothing Brands, Sizes and Care labels: Men, Women and Children 3. Storage and care of clothes	12	20	1,2,3	4,6,7	1,2	Employability	Global	Gender Environment Sustainability

PRACTICAL									
V	1. Study of a sewing machine, its parts, care and working (Lecture demonstration and/or Video). 2. Basic Sewing stitches – Hand and Machine a. Seams, pleats, gather, darts and plackets. b. Edge finishing, trimmings and fastener attachment	30	25	1,2,3	5	1,2,3	Employability Skill Development	Global	Gender Environment Sustainability

SUGGESTED EVALUATION									
CCE (50% IA)				Marks	SEE (50% UA)			Marks	
Written Class Test				20	Written Semester Exam			50	
Practical Lab work				10					
Home Assignment				05					
Quiz				10					
Attendance				05					
Total				50	Total			50	

REFERENCES									
1.	Bhatia R. and Arora C., (1999) Introduction to Clothing and Textiles, The Maharaja .Sayajirao University of Baroda, Vadodara								
2.									
3.	Isabel M.M, Nyaradzo J, (2014) Clothing Care Label, Strategic Book Publishing and Rights Co., Houston								
4.	Katbryn M. and Jainine M, (1997) Illustrating Fashion, Blackwell Science Ltd., Oxford								
5.	Reader's Digest Association, (1978) Reader's Digest Complete Guide to Sewing								
6.	Singer New Sewing Essentials, (2008) Updated and Revised Edition, Creative Publishing International, Minneapolis								
7.	Wynne A, 'Textiles', The Motivate Series, (1997) Macmillan Texts for Industrial Vocational and Technical Education, Macmillan Publishing, New York								

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc. (Clothing and Textiles) - First Year – Level 4.5										
Year	I	Introduction to Textiles (Major 2)	Credits / Hours per week Hours per semester		4 (4+0) Credits/ 4 hours/ week Theory: 60 hours, Total : 60 Hours					
Semester	I	Year of Introduction:2024-2025 Year of Syllabus Revision:	Maximum Marks		100 Marks					
Mode of Transaction		Lecture and Tutorial								
Course Outcome: CO1 Gain familiarity with key textile terms and differentiate between natural and manmade fibers. CO2 Comprehend the manufacturing process of natural and manmade fibers, including their properties and the end users of these fibers. CO3 Acquire knowledge about the different types of yarn, its properties and spinning methods. CO4 Be familiar with various methods used in fabric manufacturing.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent)/ Skill Development (SD)	Relevance to Local (L)/ National (N)/ Regional(R)/ Global (G)	Relation to Gender (G), Environment Sustainability (ES), Human Values (HV)and Professional Ethics (PE)
I	Definition and Classification 1. Terms: Fibril, Fibre, Staple, Filament 2. Classification of Textiles and their essential properties.		6	10	1,2	1,2	4	Employability	Global	Environment Sustainability
II	Types of fibres and their properties (Physical, Chemical and Biological) 1. Natural Fibers a) Cellulosic fibers- Cotton, Jute b) Protein- Wool, Silk 2. Man-made fibers a) Regenerated cellulosic fiber- Viscose Rayon b) Modified Cellulose- Cellulose Acetate c) Synthetic fibers-Nylon, Polyester, Acrylic		12	20	1,2	1,2	4	Employability	Global	Environment Sustainability
III	Yarns: Productions, its types, characteristics and uses 1. Methods of Spinning a) Mechanical Spinning b) Chemical Spinning 2. Yarn characteristics-Twist, Count 3. Types of yarns - Simple and complex 4. Textured yarn and its manufacturing methods		18	30	1,2	3	4	Employability	Global	Environment Sustainability

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

IV	Fabric manufacture: Methods and types 1. Woven a. Looms: parts and function b. Woven fabric: Warp and Weft, Basic Weaves 2. Knitted a. Types of knitting machine b. Types of knitting, characteristics of knitted fabric 3. Non-Woven-Types and properties 4. Comparison and application of various fabrics	12	20	1,2	3,4	4	Employability	Global	Environment Sustainability
V	Other fabric construction Process Macrame, crocheting, Braiding, felting, Net, lace, bonding, laminating	12	20	1,2	4	4	Employability	Global	Environment Sustainability

SUGGESTED EVALUATION			
CCE (50 % IA)		Marks	SEE (50 % UA)
Class test		25	Written Exam
Lab Assessment		20	
Attendance		05	
Total		50	Total
			50

REFERENCES	
1.	Bhatia R. and Arora C., (1999) Introduction to Clothing and Textiles, The Maharaja .Sayajirao University of Baroda, Vadodara
2.	Gokarneshan, N, (2014) Fabric Structure and Design, New Age International Publication
3.	Hess K.P., (1966), Textiles fibre and their use, New Delhi, Oxford & IBHP publishing Company
4.	Hollen N., and Saddler J. (1973) Textiles New York, Macmillan Company
5.	Potter and Corbman, (1988), Fiber to Fabric, New York, McGraw Hill Book Company
6.	Rastogi, D and Chopra, S, (2017) Textile Science, Telangana, Orient Blacksawn Private Limited
7.	Stout E.E., (1960), Introduction to Textiles, New York, John Wiley and Sons. Inc.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) First Year – Level 4.5											
Year	I	FASHION CONCEPTS AND CONSUMER (Minor 1)		Credits /Hours per week Hours per semester		4(4+0) Credits / 04 hours per week (Theory: 60 hours) Total: 60 hours					
Semester	I	Year of Introduction: 2024-25 Year of revision:		Maximum Marks		100 Marks					
Mode of Transaction		Lecture and Tutorials									
Course outcomes (CO) CO1: Gaining insights into fundamental concepts of fashion including types, cycles and societal implications. CO2: Acquire a understanding of narratives of Women’s and Men’s fashion. CO3: Understanding of factors responsible to drive fashion trends and consumer preferences. CO4: Ability to judge the textile quality sought as consumer /fashion designer through fundamental knowledge of textiles including textile care and storage practices.											
Unit No.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY											
I.	Introduction to Fashion 1. Fashion terms 2. Types of fashion: Haute-Couture, Pret-a-Porter, Avant Garde, Athleisure, Vintage fashion etc. 3. Fashion cycle: Stages of fashion Cycle, Role of fashion leaders, Theories of Fashion Movement, Fashion and Society etc.			09	15	1,2	1	9	Employability, Skill Development	Global	Professional Ethics
II.	Narratives of Fashion 1. Women’s fashion: Historical Evolution, Iconic styles and designers, Fashion and Gender, Emerging trends in women’s fashion etc. 2. Men’s fashion: Historical Context, Evolution of Masculinity, Iconic styles and designers , Fashion and Gender , Emerging trends in Men’s fashion etc.			15	25	1,2	2	9	Employability, Skill Development	Global	Gender, Professional Ethics
III.	Factors influencing Fashion 1. Political 3. Cultural 5. Technological 2. Social 4. Economical 6. Geographical			15	25	1,2	3	9	Employability, Skill Development	Global	Professional Ethics, Environment Sustainability

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

IV.	Textile fabric analysis and Dimensions of Fashion 1. Material: Textile fabric identification in terms of fibre content, weave, texture, pattern and analysis of fabric characteristics 2. Fashion according to age, season and occasion 3. Accessories	12	20	1,2	4	9	Employability, Skill Development	Global	Professional Ethics, Environment Sustainability
V.	Fabric Care, Consumer rights and Storage practices 1. Understanding Care labels, Consumer Redressal system, Mal practices, Environmental and Legal concerns 2. Textile storage practices	09	15	03	4	9	Employability, Skill Development	Global	Professional Ethics, Environment Sustainability

SUGGESTED EVALUATION

CCE (IA 50%)	Marks	SEE (UA 50%)	Marks
Class test (Written exam)	25	Final Test (Written exam)	50
Home Assignment/ Article Writing	10		
Objective test/ Quiz	10		
Attendance	05		
Total	50	Total	50

REFERENCES

1.	Frings and Gini, S, (1999), Fashion from Concept to Consumer, 5 th edition, New Jersey, Prentice- Hall of India Private Ltd.
2.	Gini, S and Frings, (2008) Fashion from Concept to Consumer, 9 th edition Prentice Hall, New Jersey.
3.	Hollen N. and Saddler J,(1977), Textiles ,New York Macmillan Co.
4.	Makwara M, I., Nyaradzo J, (2014) Clothing Care Label, Strategic Book Publishing and Rights Co., Houston.
5.	Mary, H, (2012) Fabric Reference, Licensees of Pearson Education, Dorloing Kindersley Pvt. Ltd, Noida
6.	Mike, E, (2011) Fashion Marketing, 5 th Edition, Wiley-Blackwell Publications, U.K
7.	Tyagi A, (2016) Handbook of Fashion and Textile design, Sonali Publication, New Delhi.
8.	Wintage, I. B,(1984),Textile Fabric and their selection, 8 th edition Prentice Hall of India Private Ltd.

Bloom's Taxonomy (BT) Levels:

1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc. (Clothing and Textiles) - First Year – Level 4.5										
Year	I	Textile Science (Major 3)	Credits/Hours per week Hours per semester		4(3+1) Credits /5 hours per week Theory: 45 hrs, Practical: 30 hrs, Total:75 hours					
Semester	II	Year of Introduction: 2024-25 Year of Revision:	Maximum Marks		100 Marks					
Mode of Transaction		Lecture and demonstration								
Course Outcome (CO) CO1 Demonstrate knowledge about fundamental concepts of textiles science such as monomer, polymer, polymerization, types of polymers, inter-polymer bonds, and fiber morphology. CO2 Understanding of the desirable properties of textile fibers and their influence their performance in various application. CO3 Ability to identify and differentiate conventional and non-conventional fibers, their unique characteristics, properties and application. CO4 Students will learn about natural and man-made fibres, their polymer structure, and how this structure affects their properties and uses. CO5 Apply the knowledge of textiles in apparel, household items, and industry, and be able to analyze the specific requirements for each application.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent)/ Skill Development (SD)	Relevance to Local(L)/ National (N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES), Human Values (HV), Professional Ethics (PE)
THEORY										
I	Introduction to Textile Science 1. Textile terms: Monomer, Polymer, Polymerization, Types of Polymers, Inter-Polymer Bonds and Fiber Morphology 2. Desirable Properties of textile fibre 3. Conventional and Non-conventional fibres 4. Importance of Textile Science in Textile Industry and Research		09	15	1, 2	1,2, 3	5	Employability	Global	Environment Sustainability, Professional Ethics
II	Natural Fibres: Polymer structure and its influence on properties 1. Cellulosic: Cotton, Jute, Linen 2. Protein: Wool and Silk		12	20	1, 2	4	5	Employability	Global	Professional Ethics
III	Manmade Fibres: Manufacturing Process, Polymer structure and its influence on properties 1. Regenerated and modified regenerated: Viscose Rayon, Cellulose Acetate 2. Synthetic: Nylon, Polyester, Acrylic		12	20	1, 2	4	5	Employability	Global	Environment Sustainability, Professional Ethics

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

IV	Application of Textiles 1. Apparel 2. Household 3. Industry	12	20	1, 2	5	5	Employability	Global	Environment Sustainability, Professional Ethics
-----------	---	----	----	------	---	---	---------------	--------	---

PRACTICAL

V	Fiber Identification 1. Microscopic 2. Chemical 3. Burning	30	25	3	4	5	Employability Skill Development	Global	Professional Ethics
----------	--	----	----	---	---	---	---------------------------------	--------	---------------------

SUGGESTIVE EVALUATION

CCE (50% IA)		Marks	SEE (50% UA)		Marks
Class Test (Written Exam)		30	Theory + Practical (Written Exam)		50
Lab Work Assessment/ Practical Journal		15			
Attendance		05			
Total		50	Total		50

REFERENCES

1	Bukayev, (1984), General Technology of Cotton Manufacturing Mir Publication.
2	Gohil E.P.G. and Vilensky L.D., (1987), Textile Science, CBS Publishers and Distributors, Delhi.
3	Norma H and Jane S, (1973)., Textiles, The MacMillan Co.,
4	Koch P.A., (1963), Microscopic and Chemical Testing of Textiles, New York Textile Book Service
5	Mishra S.P., A Text Book of Fiber Science and Technology, New Age International Publishers, New Delhi.
6	Trotman E.R., (1975), Dyeing and Chemical Technology of Textile Fibers, Charles Griffin & Co. Ltd., London,
7	Wynne A., Textiles-The Motivate Series (1997), Macmillan Education Ltd., London.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc. (Clothing and Textiles) - First Year – Level 4.5										
Year	I	Fundamentals of Design in Clothing and Textiles (Major 4)	Credits/Hours per week Hours per semester		4(1+3) Credits / 7 hours per week Theory: 15 hrs, Practical: 90 hrs, Total: 105 hours					
Semester	II	Year of Introduction: 2024-25 Year of Syllabus Revision:	Maximum Marks		100 Marks					
Mode of Transaction		Lecture and tutorials								
Course Outcome (CO) CO1 Understand what design is and why it is important in apparel and textile design. CO2 Learn why having good taste in design matters and how it affects the way things look. CO3 Explore the different jobs designers have, especially in textile and fashion design. CO4 Recognize the challenges and opportunities that come when designing and with being a designer today. CO5 Acquire knowledge of the fundamental elements and principles of design and their role in conveying artistic expression. CO6 Develop an understanding of the significance of elements and principles in design and their effective utilization in creating visually compelling compositions.										
Unit No.	Topic		Contact Hours	Weightage (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent)/ Skill Development (SD)	Relevance to Local(L)/ National (N) / Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I	Understanding Design, Designing and Designer 1. Design – its meaning and importance 2. Importance of good taste in design 3. Designer at work – Textile designer and Fashion designer 4. Challenges and opportunities – for design and designers 5. Elements and Principles of design and its expressiveness 6. Aspects of Colour and Pattern in design		15	25	1	1,2,3,4	6	Employability	Global	Human Values, Professional Ethics
Practical										
II	Understanding Line and its application 1. Line and its expressiveness a. Line, its types and composition b. Effect of lines to create rhythm and optical illusions.		18	15	1,2	5,6	6, 7	Employability Skill Development	Global	Professional Ethics

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

III	Understanding Colour and its application 1. Colour wheel and its dimension 2. Effect of tone – warm, cool, advancing and receding 3. Apparent change of color 4. Colour schemes and Colour vocabulary 5. Colour rhythm	24	20	1,2	5,6	6, 7	Employability Skill Development	Global	Professional Ethics
IV	Understanding Shapes, Textures and Patterns 1. Basic shapes and Silhouette shapes 2. Textures: natural and created 3. Repeat patterns: all over, spot and striped 4. Design: structural and surface	24	20	1,2	5,6	6, 7	Employability Skill Development	Global	Professional Ethics
V	Principles of Design and its application 1. Relationship of Scale and proportion 2. Balance 3. Emphasis 4. Rhythm in styling.	24	20	1,2	5,6	6, 7	Employability Skill Development	Global	Professional Ethics

SUGGESTED EVALUATION

CCE (50% IA)		Marks	SEE (50% UA)		Marks
Written Class Test		05	Theory + Practical (Written Exam)		50
Practical work		20			
Home Assignment/ Class Assignment		10			
Co-curricular work		10			
Attendance		05			
Total		50	Total		50

REFERENCES

1.	Crane D. (2000), 'Fashion and its Social Agendas', University of Chicago, USA
2.	David A. and Stephen P. (2007), 'Design Basics', Edition 7 th , Cengage Learning, New York.
3.	Ellinwood J. (2010), 'Fashion By Design', Fairchild Publications.
4.	English B. (2018), 'A Cultural History of Fashion in the 20 th and 21 st Centuries: From Catwalk to Sidewalk', Edition 2 nd , Bloomsbury Visual Arts.
5.	Ghosh S.(2018), 'Design Movement in Tagore's Santiniketan: Alpana – An Experiment in Aestheticism', Edition 1 st , Niyogi Books Pvt. Ltd, India.

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

6.	Goldstein H. and Goldstein V., (1929), Art in everyday life, The Macmillan Company, https://archive.org/details/artineverydaylif008800mbp/page/54/mode/2up?view=theater
7.	James B. (2012), 'Design Fundamentals for New Media', Edition 2 nd , Illustrated Cengage Learning, New York.
8.	James K. (2020), 'Ornamental Design: An Image Archive and Drawing Reference Book for Artists, Designers and Craftsmen', Avenue House Press Pty Ltd, India.
9.	Kaiser S. (2021), 'Fashion and Cultural Studies', Edition 2 nd , Bloomsbury Visual Arts.
10.	Parchure J.W., (2009) Fundamentals of Designing for Textiles and Other End Uses, Woodhead Publishing India Pvt. Ltd.
11.	Sorger R. and Udale J., (2017) The Fundamentals of Fashion Design, Bloomsbury Visual Arts; 3rd edition: India

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

DEPARTMENT OF CLOTHING AND TEXTILES

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) First Year – Level 4.5										
Year	I	HISTORIC TEXTILES AND COSTUMES OF INDIA (Minor 2)	Credits /Hours per week Hours per semester		4(4+0) Credits / 04 hours per week Theory: 60 hours, Total: 60 hours					
Semester	II	Year of Introduction: 2024-25 Year of revision:	Maximum Marks		100 Marks					
Mode of Transaction		Lecture and Tutorial								
Course outcome (CO) CO1: Gain knowledge of the traditional printed and painted, woven and resist dyed textiles of India with respect to its origin, history, motifs and types. CO2: Ability to identify printed and painted, woven and resist dyed textiles of India. CO3: Knowledge of the ornaments, head-dresses, footwear and design features of the Indian costumes in context to different regions. CO4: Gaining an insight in the draping styles of the Indian costumes through experiential learning. CO5: Understanding of the design and constructional features of the tailored Indian costumes through observation.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I.	Woven textiles 1. Uttar Pradesh, Madhya Pradesh, Maharashtra, Tamil Nadu, Assam, Jammu and Kashmir, West Bengal		12	20	1,2	1,2	10	Employability, Skill Development	Global	Gender, Professional Ethics
II.	Printed and Painted textiles 1. Madhya Pradesh, Rajasthan, Gujarat, Andhra Pradesh Resist yarn (Ikat) 2. Gujarat, Odisha, Telangana 3. Resist fabric (Bandhej) 4. Rajasthan, Gujarat, Tamil Nadu		12	20	1,2	1,2	10	Employability, Skill Development	Global	Gender, Professional Ethics
III.	Costumes of various states of India, emphasizing draping styles 7. Northern Zone 8. Eastern Zone 9. Western Zone 10. Southern Zone		12	20	1,2	1,2	10	Employability, Skill Development	Global	Gender, Professional Ethics, Environment Sustainability

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

	11. Central Zone								
IV.	Technical specification of costumes for- 4. Northern Zone 5. Eastern Zone 6. Western Zone 7. Southern Zone 8. Central Zone	12	20	1,2	3,4	10	Employability, Skill Development	Global	Professional Ethics, Environment Sustainability
V.	Comparative analysis of Textiles and Costumes of India	12	20	3,4	5	10	Employability, Skill Development	Global	Professional Ethics, Environment Sustainability

SUGGESTED EVALUATION			
CCE: (IA 50%)	Marks	SEE: (UA 50%)	Marks
Class test (Written exam)	25	Final Test (Written exam)	50
Case Study/ Home Assignment	10		
PowerPoint Presentation	10		
Attendance	05		
Total	50	Total Marks	50

REFERENCES	
1.	Jamila B., (1958), The Crafts of Weaver's, The Costumes and Textiles of India, Bombay, D.B. Taraporewalla and Sons. & Co. Pvt. Ltd.
2.	Chattopadhyay K., (1975), Handicrafts of India, New Delhi: Allied publishers.
3.	Ghurye G., (1951), Indian Costume, Bombay: Popular Prakashan.
4.	Ethel L.,(1937), The Romance of Textiles The MacMillan Co., New York
5.	Koher C.,(1963), A History of costume, New. York: Dover Pub. Inc.
6.	Gray D., (1956), Historic costumes, USA:Published by C. A. Bennett Company
7.	Mehta J., (1970), Master pieces of Indian Textiles, Bombay: Published by Taraporewalla Sons Co. &Pvt. Ltd.
8.	Sarabhai M., (1987), Patola and Resist dyed Fabrics of India, Mapin publishing Pvt. Ltd. Ahmedabad.
9.	Start R., (1969), A History of Printed Textiles, London: W.J. Mackey & Co. Ltd.
10.	Treasures of Textiles, 1980 , Calico Museum, Ahmedabad, Marg Publications, India.
11.	Textiles and Embroideries of India , 1965 , Mulk Published by Marg Publications, India.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc. (Clothing and Textiles) - First Year – Level 4.5										
Year	I	Image Styling (MDC 2)	Credits/ Hours per week Hours per semester				4 (4+0) Credits /4 hours per week Theory: 60 hours, Total: 60 hours			
Semester	II	Year of Introduction: 2024-25 Year of Syllabus Revision:	Maximum Marks				100 Marks			
Mode of Transaction		Lecture and Tutorial								
Course Outcomes: CO1: Know your physical self in terms of body type and proportions. CO2: Understand the role of physical attractiveness in styling one’s image. CO3: Role of Illusion dressing in correcting body proportions. CO4: Create your own image and express it through personal grooming, clothing and etiquettes. CO5: Assess your existing wardrobe and organize it on the basis of your personal style Requirements. CO6: Identify the availability of apparel and accessories as per your style, size and budget CO7: Enhance capacity to build a positive personal image by identifying clothes fitting to one’s needs and dressing appropriately. CO8: Able to guide others in their shopping of clothes based on one’s physical attributes and image intended										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent)/ Skill Development (SD)	Relevance to Local (L)/ National (N)/ Regional(R)/ Global (G)	Relation to Gender (G), Environment and Sustainability (ES), Human Values (HV)and Professional Ethics (PE)
I	Physical traits and personality 1. Body and figure types a. Body Proportion b. Figure type & problems c. Personality 2. Figure Analysis – identifying your physical self and facial features 3. Physical attractiveness - its determinants and social effects		12	20	1,2,3	1,2	8	Skill Development	Global	Gender, Professional Ethics
II	Concepts and principles governing personality 1. Effects of design elements and principles on clothing a. Elements and Principles of design b. Fashion Fundamentals c. Development of future fashion trends of garments and accessories 2. Principles of illusion dressing		12	20	1,2,3	3,4,7	8	Skill Development	Global	Gender, Professional Ethics

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

III	Personal Style Expression 1. Etiquette and Personal Grooming 2. Colour and personal style analysis	12	20	1,2,3	1,2,4	8	Skill Development	Global	Gender, Professional Ethics
IV	Identifying clothing needs and wardrobe planning 1. Wardrobe Analysis and Organization a. Wardrobe style identification b. Organization and categorization of wardrobe c. Elements of a basic wardrobe d. Guidelines for garment maintenance	12	20	1,2,3	5,6,7	8	Skill Development	Global	Gender, Professional Ethics
V	Personal Shopping 1. Preview of apparel / accessory stores and brands in context to style, size and budget. 2. Wardrobe expansion method.	12	20	1,2,3	7,8	8	Skill Development	Global	Gender, Professional Ethics

SUGGESTED EVALUATION			
CEE (50% IA)		Marks	SEE (50% UA)
Class Test/Semester Exam		15	Written Semester Exam
Class Assignment		15	
Quizzes/ Objectives test		15	
Attendance		05	
Total		50	Total
			50

REFERENCES	
1.	Singh, D. (1993)'Adaptive significance of female physical attractiveness: Role of waist-to-hip ratio.' Journal of Personality and Social Psychology.
2.	Funder, D. C. (2001), 'The Personality Puzzle (2nd ed.)'. New York: W. W.Norton.
3.	Phares, J. E. (1991), 'Introduction to Personality (3rd ed.)'. New York: Harper Collins.
4.	Pooser, Doris (2008), 'An Indian Man's Guide to Success: perfecting your personal image', New Delhi : Harper Collins
5.	Woodward and Sophiel (2007), 'Why women wear what they wear', New York: BERG Publishers.
6.	Patel, R. (2019). 'Mastering Image Styling: A Comprehensive Guide for Designers and Photographer', San Francisco, CA: Publisher.
7.	Johnson, M. (2018). 'The Photographer's Guide to Image Styling: Techniques for Captivating Visuals'. New York, NY
8.	Garcia, L. (2020), 'The Art of Visual Storytelling: Image Styling for Photographers'. Boston, MA
9.	Kim, S. (2017). 'Image Styling Secrets: Tips and Tricks for Creating Stunning Visuals'. Chicago, IL

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

B.Sc. (Clothing and Textiles) - First Year – Level 4.5 (to be offered at the end of First Year on Exit)										
Year	I	Summer Internship (Experiential Learning)	Credits / Hours per week			4 (0+4) / 30 hours/week Practical: Total 120 Hours				
Semester	II Exit	Year of Introduction: 2024-25 Year of Syllabus Revision:	Maximum Marks			100 Marks				
Mode of Transaction		Demonstrations, Hands On Training and Tutorials, Interaction, dialogue and collaboration with stake holders of potential job / social sector								
Course Outcome (CO) CO1 Gain first-hand experience to comprehend the expectations and behaviour in accordance with the demands, culture, and values of current and emerging jobs in the chosen field CO2 Improve the skill aptitude for a specific job or job role combining physical and digital modes of learning CO3 Develop a sense of social issues and philanthropic usefulness which facilitates the development of an attitude towards citizenship responsibility.										
Unit No.	Topic		Contact Hours	Weightage (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship(Ent) Skill Development(SD)	Relevance to Local(L)/ National (N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES), Human Values (HV) Professional Ethics (PE)
I	Experiential Learning of 30 days (4 weeks) in one of the following sectors for enhancing employability a. Handcraft, Art, Design b. Digitization & Emerging Technologies c. Education d. Environment / Sustainable development e. Medium and Small-Scale Industries f. Information Technology enabled Services		108	90	1, 2, 3, 4, 5, 6	1,2	11,12, 13	Employability Entrepreneurship Skill Development	Local	Gender / Environment Sustainability / Human Values / Professional Ethics
II	Compilation of report and presentation for final assessment. (Certificate to be provided by the Institution/Agency)		12	10	1, 2, 3, 4, 5, 6	2, 3	11,12, 13	Employability Skill Development	Global	Professional Ethics

Bloom’s Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Students who opt to exit after completion of the First year and have secured 44 credits will be awarded a UG certificate if, in addition they complete one vocational course of 4 credits during the summer vacation of the first year. These students are allowed to re-enter the degree programme within three years and complete the degree programme within the stipulated maximum period of 7 years

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

Enclosure 5b PROPOSED FY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

**DEPARTMENT OF CLOTHING AND TEXTILES
FACULTY OF FAMILY AND COMMUNITY SCIENCES
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, BARODA**

**Programme: B.Sc. (Family and Community Sciences) - CLOTHING AND TEXTILES
Second Year Course Syllabus with PSO**

Programme specific objectives (PSO) - CLOTHING AND TEXTILES

- PSO 1 Gain an understanding of how clothes affect children psychologically and socially, and choose suitable attire for younger children based on style, materials, and activities.
- PSO 2 Develop proficiency in making children's clothes, understanding their importance for girls and boys of elementary school age.
- PSO 3 Master basic flat pattern making techniques to create design variations in traditional and contemporary styles for product development.
- PSO 4 Be equipped with the principles of labelling, quality management systems and integrate eco-standard practices into textile and apparel production processes
- PSO 5 Understanding of textile care, treatment processes along with practical exposure in laboratory dyeing, printing, and finishing.
- PSO 6 Knowledge of household textiles, including their types, materials, and appropriate care methods and purchasing decisions considering factors such as material quality, durability, and suitability for specific purposes.
- PSO 7 Gain a comprehensive understanding of the significance of fashion illustration in the apparel industry, while acquiring proficiency in creating basic female, male and children illustrations; exploring various media techniques, and demonstrating adaptability in visual design expression.
- PSO 8 Cultivate a deep understanding of the elements intrinsic to traditional Indian embroideries.
- PSO 9 Understanding of both traditional and contemporary textile crafts practices, including their historical context, cultural significance, and its applications.
- PSO 10 Develop ability to enhance value of textile products through diverse surface ornamentation techniques.
- PSO 11 Possess an understanding of the fashion industry's business dynamics, including marketing, retailing, strategic decision-making, trend and market research, and communication for product promotion.
- PSO 12 Acquire familiarity of basic concepts of textiles from fibre to fabric for its identification and analysis according to end user's requirement as a component of interdisciplinary learning
- PSO 13 Demonstrate proficiency in applying theoretical knowledge to real-world scenarios through experiential learning opportunities in the chosen area of employment
- PSO 14 Exhibit advanced problem-solving and decision-making skills cultivated through collaborative teamwork, fostering a culture of collaboration and professionalism conducive to achieving organizational objectives.
- PSO 15 Develop foundational understanding of industry practices, emerging trends, and technological advancements in the field of clothing and textiles which will enable them to explore various career paths and gain insight into the professional expectations within the industry.

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Faculty of Family and Community Sciences (Second Year – Level 5.0)

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

COURSE SYLLABUS FOR SECOND YEAR B.Sc. (Family and Community Sciences) – CLOTHING AND TEXTILES

Year (level)	Semester	Course Name	Credit	Course type
II (5.0)	3	Children's Clothing	4(1+3)	Major 5
		Textile Labelling and Standardization	4(4+0)	Major 6
		Apparel Design and Illustration	4(1+3)	Major 7
		Household Textiles	4(4+0)	MDC 3
		Developing Digital Communication Skills	2 (2+0)	AEC 3
		Creative Textile Crafts	2 (0+2)	SEC 3
		Traditional Embroideries of India	2 (0+2)	IKS 2
		TOTAL	22(12+10)	
	4	Basics of Flat Pattern Making	4(1+3)	Major 8
		Textile Wet Processing	4(2+2)	Major 9
		Apparel Marketing and Merchandising	4(4+0)	Major 10
		1 Minor from a basket of 6 courses Elementary Textiles	4(4+0)	Minor 3
		Developing Employability Skills in English	2 (2+0)	AEC 4
		Textile Value Addition: Methods and Applications	2 (0+2)	SEC 4
		Laundry Science and Finishes	2 (2+0)	VAC 2
		TOTAL	22 (15+7)	
UG Diploma		SUMMER INTERNSHIP (required on Exit)	4 (0+4)	Experiential Learning

*  Common Courses

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0

Year	II	CHILDREN'S CLOTHING (Major 5)	Credits /Hours per week Hours per semester	4(1+3) Credits / 07 hours per week Theory: 15 hours, Practical: 90 hours Total: 105 hours
Semester	III	Year of Introduction: 2024-25 Year of revision:	Maximum Marks	100 Marks
Mode of Transaction		Lecture and Practical		

Course outcome (CO)

CO1: Develop an insight for the psychological, sociological implications of clothes on kids.
CO2: Acquire ability to choose clothing based on style, material and activities of young children.
CO3: Develop competency and proficiency in the construction of children's apparel.
CO4: Recognize the importance of clothes and its utility for elementary school-aged boys.
CO5: Understand the necessary clothes and practical attributes for girls in elementary school.

Unit No.	Topic	Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
----------	-------	---------------	----------------	----------	----	-----	--	---	--

THEORY

I.	Clothing for the child: A Historical perspective 1. History of children's clothing 2. Effects of Clothing on the child – a. Psychological effect of clothing on the child. b. The impact of clothing on a child's growth and development. c. Trimmings and accessories for children's garment. 3. Apparels for kids of different age groups- a. The infant (0-6 months) b. The creeping age (7 to 12 months) c. The pre-school age (2.5 to 6 yrs.)	6	10	1,2	1	1	Employability, Entrepreneurship, Skill Development	Global	Gender, Human values
II.	Clothing for elementary school child 1. The elementary school child (6-12 yrs.) a. Home-made versus ready-made clothing. b. Sizing and labelling	9	15	2,3	2	1	Entrepreneurship	Global	Gender, Human values

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

	c. Required features in the garments and growth allowance d. Wardrobes for elementary school children 2. Practices and preferences in children's clothing. a. Children's preferences b. Fit and style								
--	---	--	--	--	--	--	--	--	--

PRACTICAL

III.	Drafting and Construction of garments- infants, creeping age and pre-school age 1. Diapers – square (64.0 X 64.0 cm) and shaped 2. Sun suit – Bib, gathers, side plackets, straps, crotch opening, riveting 3. Cap sleeve dress 4. Smocking dress with puff sleeves	30	25	2,3,6	3	2	Employability, Entrepreneurship, Skill Development	Global	Gender, Environment Sustainability
IV.	Drafting and constructing garments-elementary school child (boy) 1. Shorts – Cut-away pockets, zipper and fly opening, waist band 2. Shirt – yoke, pocket, closure, full roll straight collar, short sleeve	20	19	2,3,6	3,4	2	Employability, Entrepreneurship, Skill Development	Global	Environment Sustainability
V.	Drafting and constructing garments- elementary school child (girl) 1. Skirt – knife / box / inverted box pleats, with placket or wrap around type 2. Dress – sleeveless, gathers at waist, placket, yoke, darts, tucks on the upper body or yoke, peter pan collar	30	25	2,3,6	3,5	2	Employability, Entrepreneurship, Skill Development	Global	Gender, Environment Sustainability

SUGGESTED EVALUATION

CCE (50% IA)		Marks	SEE (50% UA)		Marks
Written Class Test		20	Written Semester Exam		10
Practical Lab work		10	Practical Lab work		40
Home Assignment		05			
Quiz		10			
Attendance		05			
Total		50	Total		50

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

REFERENCES	
1.	Juvekar M.B. (1967), Easy Cutting, Bombay Ball companies 166 Dr. Ambedkar Road Dadar, Bombay.
2.	Pandit S. (1967) Manual of Children's Clothing, Orient Longman Ltd., Bombay.
3.	Tanous H.N. (2011) Making Clothes for Your Little Girls, Abernnett Company Inc., Illinois, U.S.A.
4.	Tate H.T. and Gisson O. (1961), Family Clothing, John Wiley & Sons. Inc. New York.
5.	Thomas A.J. (1996), The Art of Sewing, UBJ Publication Distributors Ltd., New Delhi.
6.	Thomson H.M. & Rea L.E. (1949), Clothing for Children, John Wiley & Sons. Inc. New York.
7.	Zarapkar K. R. (1994), Zarapkar System of cutting, Published by A. K. Gala for Navneet Publication India, Ltd.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0

Year	II	Textile Labelling and Standardization (Major 6)	Credits /Hours per week Hours per semester		4 (4+0) Credits / 4 hours per week (Theory: 60 hours) Total: 60 Hours/Semester					
Semester	III	Year of Introduction: 2024-25 Year of revision:	Maximum Marks		100 Marks					
Mode of Transaction		Lecture and Practical								
Course outcome (CO) CO1: Knowledge about the type, material and care for household textiles. CO2: Understand care labels and use its instructions for maintenance of household textiles. CO3: Understand the market and make the right purchase of household textiles.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I.	Introduction to Labelling 1. Elements of Textile Labelling a. Information required on textile labels, such as fiber content, care instructions, and country of origin. b. Different types of labels and their applications (e.g., sewn-in labels, hang tags, printed labels). 2. Methods and Techniques a. Methods and techniques used in textile labelling, including printing, embroidery, and heat transfers.		15	25	1,2	1	4	Employability	Global	Environment Sustainability, Professional Ethics
II.	Introduction to Quality Standards 1. Importance of Quality standards in the Apparel Industry 2. Quality Control versus Quality Assurance 3. Overview of British Standards and ISO Standards 4. Introduction to ISO 9000 and ISO 14000 Standards 5. Total Quality Management Systems		15	25	1,2	2	4	Employability	Global	Environment and Sustainability, Professional Ethics
III.	Organization for Quality Certification 1. National Organizations 2. International Organizations		12	20	4	1		Employability	Global	Environment Sustainability, Professional Ethics

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

IV.	Consumer Awareness 1. Consumer Rights and Responsibilities 2. Problems and Provisions	9	15	5	3	4	Employability	Global	Professional Ethics
V.	Consumer Protection 1. Role of Government organization in consumer Disputes Redressal 2. Role of Non-Government Organization in consumer Grievance Redressal 3. Consumer Redressal Process	9	15	5	3	4	Employability	Global	Professional Ethics
SUGGESTED EVALUATION									
CCE (50% IA)		Marks	SEE (50% UA)					Marks	
Class test (Written exam)		25	Final Test (Written exam)					50	
Quizzes / Objective test / Open note test/ Home assignment		10							
Poster presentation / Report writing / Field assignment / Case study		10							
Attendance		05							
Total		50	Total					50	
REFERENCES									
1. Mehta P. V. and Bhardwaj S.K., (2012) Managing Quality in the Apparel Industry, New Age international (P) Limited Publishers, New Delhi, India									
2. Rastogi D. & Chopra S. (2017), Textile Science, Orient Blackswan Private Limited Delhi, India									
3. International Organization for Standardization. (2016). ISO 3758:2012 Textiles - Care labelling code using symbols. Geneva, Switzerland: ISO.									
4. American Society for Testing and Materials. (2019). ASTM D5489/D5489M-18 Standard Guide for Care Symbols for Care Instructions on Textile Products. West Conshohocken, PA: ASTM International.									
5. Kadolph, S. J., & Langford, A. L. (2016). Textiles (12th ed.). Upper Saddle River, NJ: Pearson.									
6. Subramanian Senthilkannan (2023) Novel Sustainable Process Alternatives for the Textiles and Fashion Industry, Springer Publication, Singapore									
7. S.S. Muthu, (2015), Roadmap to sustainable Textiles and Clothing, Springer Publication, Singapore									

Bloom’s Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0										
Year	II	APPAREL DESIGN AND ILLUSTRATION (Major 7)	Credits /Hours per week Hours per semester				4(1+3) Credits / 07 hours per week (Theory: 15 hours, Practical: 90 hours) Total: 105 hours			
Semester	III	Year of Introduction: 2024-25 Year of revision:	Maximum Marks							
Mode of Transaction		Lecture and Practical								
Course outcome (CO) CO1: Understand fashion illustration process and its importance. CO2: Gain awareness of national and international fashion illustrators. CO3: Create basic understating of female, male and\or children croquis and exploring various media techniques. CO4: Build the ability in the art of sketching and designing new clothing patterns based on present and future trends. CO5: Create theme-based designs with suitable fabric, colour and prints, garment details.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development(SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I.	Introduction to fashion sketching and illustration 1. Definition, importance, and its role in today's competitive world of fashion. 2. Fashion vocabulary 3. Maintenance of scrap book 4. Drawing Equipment and Tools 5. Body balance and proportions – rules in sketching 6. Knowledge of fashion illustrators across the globe		15	14	1,2	1,2,3	7	Employability	Global	Gender
PRACTICAL										
II.	Human Anatomy Drawing 1. Basic figure drawing using the specific proportions of an average and fashion figure in a grid (female, male and/or children croquis) 2. Sketch varying postures of model figures		25	24	2,6	3	7	Employability Skill Development	Global	Gender
III.	Use of Colour Medias and Techniques 1. Exploring Medias and Techniques to create textures. 2. Creating fabric textures: silk, satin, fur, knits, corduroy, denim etc.		20	19	3	3	7	Employability Skill Development	Global	Environment Sustainability

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

IV.	Creating Garment Library 1. Sketching garment trims and details - necklines, sleeves, collars, pockets, pleats, seams etc. 2. Sketching garments silhouettes a. Skirts-lengths and types b. Bifurcated garment-lengths and variations	30	29	3,4	4	7	Employability Skill Development	Global	Gender Environment Sustainability
V.	Designing and illustrating garments 1. Designing apparel for Men / Women / Children with any of the suggested design ideas rendered in suitable textures. a. Using geometric forms and lines, design an outfit suitable for a specific figure type (Optical Illusion). b. Using a historical costume as an inspiration, design a Garment that would be worn today. c. Design a costume for a specific event or profession, e.g., drama, skating, dancing, or gymnastics performance etc.	15	14	1,6	5	7	Employability Skill Development	Global	Gender Environment Sustainability

SUGGESTED EVALUATION:			
CCE (50% IA)		SEE (50% UA)	
	Marks		Marks
Written Class Test	10	Practical Exam (with Written Exam)	50
Practical Class work	15		
Class Assignment	10		
Co-curricular work	10		
Attendance	05		
Total	50	Total	50
REFERENCES			
1.	Colin B., (1988). Fashion Illustration. Macdonald, South Africa.		
2.	Abling B., (2001). Fashion Rendering with colour (Illustrated ed.). Prentice and Hall, New Jersey.		
3.	Calasibetta C.M., & Tortora P.G., (2003). Illustrations by Bina Abling, TheFairchild Dictionary of Fashion (3rd ed.). Fairchild Publications, New York.		
4.	Brockman H., (1997) .The Theory of Fashion Design. John Willey & Sons, New York.		
5.	Mekelively K., & Munstow J., (1997). Illustrating Fashion. Blackwell Publishing, U.K.		
6.	Ireland P. J., (1996). Fashion Design Illustration – men. B.T. Batsford, London.		

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

7.	Ireland P. J., (2003). Introduction to Fashion Design. B.T. Batsford, London.
8.	Tate S.L., & Glazer B., (2007). The Snap Fashion Sketchbook. Prentice Hall, New Jersey.
9.	Stecker P., (1996). The Fashion Design Manual. Macmillan, South Yarra.
10.	Stipelman S., (2005). Illustrating Fashion: Concept to Creation (2nd ed.). Fairchild Publications, New York.
11.	Tate S.L., & Edwards M.S., (1987). The complete book of Fashion Illustration (2nd ed.). Harper and Row Publication, New York.
12.	Konemann., (2014). Fashion Illustration Step by Step. Maomao Publication, Spain.
13.	Bryant M. W., (2016). Fashion Drawing: illustration techniques for fashion designers. Laurence King Publishing, London.
14.	Borrelli L., (2004). Fashion Illustration Next. Thames & Hudson, London.
15.	Nunnally C. A., (2009). Fashion Illustration School: A complete Handbook for Aspiring Designers and Illustrations. Thames & Hudson, London.
16.	Stuart M., (2014). Creative Fashion Illustration: How to Develop Your Own Style. Bloomsbury, London.
17.	Dowlower D., (2010). Master of fashion illustration. Laurence king Publication, London.
18.	Baeza J., (2016). Fashion drawing course: from human figure to Fashion illustration. Routledge, Newyork.
19.	Lafuente M.,(2009). Morden fashion illustration (1st ed.). Paco Asentio, Paris.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0										
Year	II	HOUSEHOLD TEXTILES (MDC 4)	Credits /Hours per week Hours per semester				4(4+0) Credits / 04 hours per week (Theory: 60 hours) Total: 60 hours			
Semester	III	Year of Introduction: 2024-25 Year of revision:	Maximum Marks				100 Marks			
Mode of Transaction		Lecture and Tutorial								
Course outcome (CO) CO1: Knowledge about the type, material and care for household textiles. CO2: Understand care labels and use its instructions for maintenance of household textiles. CO3: Understand the market and make the right purchase of household textiles.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship(Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I.	Introduction to Household textiles 1. Definition, classification and importance of Household textiles 2. Care and Maintenance of Household textiles		9	15	1,2	1	6	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
II.	Bed linen and Kitchen linen 1. Definition, types, selection, use and care of bed and kitchen linen		12	20	1,2	1,2	6	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
III.	Table linen and Bathroom linen 1. Definition, types, selection, use and care of table and bathroom linen		15	25	1,2	1,2	6	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
IV.	Home furnishing 1. Wall Coverings a. Draperies and Curtains b. Difference between Draperies and Curtains c. Method of furnishing Draperies and Curtains d. Use and Care of Wall coverings 2. Floor Coverings a. Classification of floor coverings: Handmade and Machine made		15	25	1,2	1,2	6	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics

	b. Carpets and its types c. Selection, Use and care of floor coverings								
V.	Market overview 1. Overview of Indian Household Textile Industry 2. Market Size, growth and trends in household textile industry 3. Household Textile brands in India 4. Technological innovations in home textile	9	15	1,2	3	6	Employability Skill Development	Global	Environment Sustainability, Professional Ethics

SUGGESTED EVALUATION

CCE (IA 50%)		Marks	SEE (UA 50%)		Marks
Class test (Written exam)		20	Final Test (Written exam)		50
Case studies / Report writing / Home assignment		10			
Project Evaluation/ Poster presentation / Field assignment		15			
Attendance		05			
Total		50	Total		50

REFERENCES

1.	Anonymous, https://www.textileindustry.net/different-types-of-home-textiles-used/
2.	Babu, V, R and Sundareson, S., (2018). Home Furnishing, Wood head publishing India in Textiles, New Delhi.
3.	Das, S., (2015). Performance of home textiles, Woodhead Publishing India in Textiles, New Delhi.
4.	Deulkar, D., (2011). Household Textile and Laundry Work, Atma ram sons publisher, Delhi.
5.	Gibb, C, M., (2019). Household textiles, Forgotten books.
6.	Hess K.P., (1966). Textile fibre and their uses, New Delhi, Oxford and IBMP Publishing Company.
7.	Kapoor, H and Arora, A., (2012). Home textiles, Published by authors, India.
8.	Karthik, T and Gopalakrishnan, D., (2020). Home textiles, Daya publishing house, New Delhi.
9.	Kashyap, R., (2015). Sustainable Fibers and Fabrics used in Home Textiles, International Journal for Scientific Research & Development, 3(9):901-903.
10.	Kiron., (2021). Type, Classification and application of Home textiles, https://textilelearner.net/home-textile-types-classification/ .
11.	Parry, L., (1988). Textiles of the Arts and crafts Movement, Thames and Hudson.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0										
Year	II	CREATIVE TEXTILE CRAFTS (SEC 3)	Credits /Hours per week Hours per semester		2(0+2) Credits / 04 hours per week (Practical: 60 hours) Total: 60 hours					
Semester	III	Year of Introduction: 2024-25 Year of revision:	Maximum Marks		50 Marks					
Mode of Transaction		Practical								
Course outcome (CO) CO1: Knowledge of creative traditional and contemporary textile crafts practices. CO2: Recognize the various facets in product making. CO3: Understand the relationship of the material and techniques for different textile crafts. CO4: Acquire basic skills of soft material manipulation like fabric, yarn etc. for product making. CO5: Develop innovative and aesthetic designs using creative textile craft techniques.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES),Human Values (HV) Professional Ethics (PE)
PRACTICAL										
I.	Analysis of textile craft items - traditional and contemporary 1. Critical analysis of a craft product a. Embellishment as a means of value addition b. Methods and materials for various crafts and its selection 2. Understand the role of creative thinking in product making a. Recognize innovative and original ideas. b. Identify unique features, designs, or branding elements for product differentiation		10	17	1,2,3,4,6	1,2	9	Entrepreneurship Skill Development	Global	Professional Ethics
II.	Yarn and fabric craft creation 1. Techniques and process in yarn craft nurture a. Knitting b. Crochet c. Macrame d. Tatting 2. Techniques and process in fabric craft		30	50	2,3,6	3,4	9	Entrepreneurship Skill Development	Global	Gender

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

	a. Quilting b. Draw-thread c. Applique and patchwork d. Soft toy								
III.	Product Making 1. Using yarn craft techniques 2. Using fabric craft techniques	20	33	2,3,6	5	9	Entrepreneurship Skill Development	Global	Environment Sustainability
SUGGESTED EVALUATION:									
CCE (IA 50%)		Marks	SEE (UA 50%)					Marks	
Practical Class Test		10	Practical Semester Exam					25	
Craft work/ Co-Curricular work		15							
Total		25	Total					25	
REFERENCES									
1.	Cheney N., and Dr. McAllister H. (2020),Textile Surface Manipulation, Herbert Press Ltd.								
2.	Dorothy M. and Howlett O, (1954). Encyclopedia of needlecraft: Contributors: Dorothy M. Howlett [and others], Odham’s Press.								
3.	Home Library, (1999), Creative Patchwork: with Applique and Quilting, Cole Pub Co.								
4.	Lucinda G, (2012), Creative Needlework Handbook: a Comprehensive Guide to Materials and Techniques, with Over 60 Step-by-step Projects, Publisher: Southwater.								
5.	Peake P. (1974), Creative soft toy making, Bobbs-Merrill Co, Ingles								
6.	Reader’s Digest (1979), Complete guide to Needlework, New York, The reader’s digests association Inc.								
7.	Utsunomiya M. (2019), Cute Birds to Make with Needle Felting, Tuva Publishing.								
8.	Blake J. and Fisher J. (1978), Vintage Woman’s Day Complete Book of Handicrafts. Australia.								
9.	Woods K. (2020), Creative Textile Art: Techniques and Projects, Herbert Press Ltd.								

Bloom’s Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0										
Year	II	TRADITIONAL EMBROIDERIES OF INDIA (IKS 2)	Credits /Hours per week Hours per semester				2(0+2) Credits / 04 hours per week (Practical: 60 hours) Total: 60 hours			
Semester	III	Year of Introduction: 2024-25 Year of revision:	Maximum Marks				50 Marks			
Mode of Transaction		Practical								
Course outcome (CO) CO1: Knowledge of creative traditional and contemporary textile crafts practices. CO2: Recognize the various facets in product making. CO3: Understand the relationship of the material and techniques for different textile crafts. CO4: Acquire basic skills of soft material manipulation like fabric, yarn etc. for product making. CO5: Develop innovative and aesthetic designs using creative textile craft techniques.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES),Human Values (HV) Professional Ethics (PE)
PRACTICAL										
I.	Introduction of various Indian embroideries 1. History and origin 2. Knowing basic stitches 3. Sketching traditional motifs 4. Identify Colors and threads and fabrics 5. Understanding Traditional products		10	17	1,2	1	8	Employability Entrepreneurship	National Global	Environment Sustainability Professional Ethics
II.	Techniques for the traditional embroideries of Northern India 1. Kashida of Kashmir 2. Chamba Embroidery of Himachal Pradesh 3. Phulkari and Bagh of Punjab 4. Chikankari of Uttar Pradesh 5. Gold & Silver Embroidery		20	33	2,3,4	1,2	8	Employability Entrepreneurship Skill Development	National Global	Environment Sustainability Professional Ethics

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

III.	Techniques for the traditional embroideries of other parts of India 1. Kantha of Bengal 2. Embroidery of Manipur 3. Kasuti of Karnataka 4. Embroidery of Gujarat 5. Bead Work	20	33	2,3,4	1,2	8	Employability Entrepreneurship Skill Development	National Global	Environment Sustainability Professional Ethics
IV.	1. Visit to a museum for analysing various traditional antique embroideries of India 2. Design a product line – apparel / accessories / home furnishing using traditional motifs and stitches of Indian embroideries	10	17	1,2,3,6	1,2,3	8	Employability Entrepreneurship Skill Development	National Global	Environment Sustainability Professional Ethics

SUGGESTED EVALUATION:

CCE (IA 50%)	Marks	SEE (UA 50%)	Marks
Practical Class Test	10	Practical Semester Exam	25
Craft work/ Co-Curricular work	15		
Total	25	Total	25

REFERENCES

10.	Cheney N., and Dr. McAllister H. (2020), Textile Surface Manipulation, Herbert Press Ltd.
11.	Dorothy M. and Howlett O, (1954). Encyclopedia of needlecraft: Contributors: Dorothy M. Howlett [and others], Odham's Press.
12.	Home Library, (1999), Creative Patchwork: with Applique and Quilting, Cole Pub Co.
13.	Lucinda G, (2012), Creative Needlework Handbook: a Comprehensive Guide to Materials and Techniques, with Over 60 Step-by-step Projects, Publisher: Southwater.
14.	Peake P. (1974), Creative soft toy making, Bobbs-Merrill Co, Ingles
15.	Reader's Digest (1979), Complete guide to Needlework, New York, The reader's digests association Inc.
16.	Utsunomiya M. (2019), Cute Birds to Make with Needle Felting, Tuva Publishing.
17.	Blake J. and Fisher J. (1978), Vintage Woman's Day Complete Book of Handicrafts. Australia.
18.	Woods K. (2020), Creative Textile Art: Techniques and Projects, Herbert Press Ltd.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0											
Year	II	BASICS OF FLAT PATTERN MAKING (Major 8)			Credits /Hours per week Hours per semester		4(1+3) Credits / 07 hours per week (Theory: 15 hours, Practical: 90 hours) Total: 105 hours				
Semester	IV	Year of Introduction: 2024-25 Year of revision:			Maximum Marks		100 Marks				
Mode of Transaction		Lecture and Practical									
Course outcome (CO) CO1 Knowledge of fundamental principles and techniques of flat pattern making. CO2 Application of learnt techniques for development of design variations. CO3 Adaptation of basic patterns to trendy designs. CO4 Gain insight into its application through product development.											
Unit No.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY											
I.	Introduction to pattern making 1. Pattern making terms and techniques 2. Pattern making tools			7	12	1,2	1	3	Employability	Global	Environment Sustainability, Professional Ethics
II.	Pattern making principles 1. Darts and their manipulation 2. Contouring 3. Added fullness			8	13	1,2	1	3	Employability	Global	Environment Sustainability, Professional Ethics
PRACTICAL											
III.	Basic upper and lower slopers 1. Development of basic lower and upper slopers 2. Principles in pattern making for- a. Upper garment b. Lower garment			36	30	2,3,6	1,2	3	Employability, Skill Development	Global	Gender, Environment Sustainability, Professional Ethics

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

IV.	Development of patterns for garment features- 1. Basic skirt types and its variations 2. Basic sleeves and its variations 3. Basic collars- full roll, peter pan, flat, Chinese, bow and tie collar 4. Dresses with trendy style lines	36	30	2,3,6	2,3	3	Employability, Skill Development	Global	Gender, Environment Sustainability, Professional Ethics
V.	Construction of a style garment on half scale	18	15	3,4,5,6	2,3,4	3	Employability, Entrepreneurship, Skill Development	Global	Gender, Environment Sustainability, Professional Ethics

SUGGESTED EVALUATION

CCE (50% IA)		Marks	SEE (50% UA)		Marks
	Written Class Test	20		Written Semester Exam	10
	Practical Lab work	10		Practical Lab work	40
	Home Assignment	05			
	Quiz	10			
	Attendance	05			
	Total	50		Total	50

REFERENCES

1.	Armstrong H J., (1995), Pattern making for Fashion Designing, Pearson Education, Inc, Harper Collins Publishers.
2.	Erwin M. D., (1954). Practical Dress Design, Principles of fitting and Pattern making, The Macmillan co. New York.
3.	Kopp. E., Rolf V., and Zelin B., (1992) Designing Apparel through the Flat Pattern – Art production
4.	Lynne J. and Fairbanks M., (2018), Pattern Design: Fundamentals: Construction and Pattern Making for Fashion Design, Create Space Independent Publishing Platform.
5.	Norma R H., & Carolyn J K. (1972), Pattern Making by Flat pattern method, Burgess Publishing Co. Minnesota.
6.	Pellen D.,(2023), Pattern making for Womenswear Vol. 2: Constructing Base Patterns - Bodices, Sleeves and Collars, Hoaki publications.
7.	Pepin (1992), Modern Pattern Drafting, Modern Pattern Design, Funk and Wagnalls Co. New York, London.
8.	Sara A. (2017), Designing clothes with the flat pattern, Quarry Books, China.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year –Level 5.0				
Year	II	TEXTILE WET PROCESSING (Major 9)	Credits / Hours per week Hours per semester	4 (2+2) Credits / 6 hours per week (Theory: 30 hours, Practical: 60 hours) Total :90 Hours/Semester
Semester	IV	Year of Introduction: 2024-25 Year of Syllabus Revision: -	Maximum Marks	100 Marks

Course Outcome (CO)

CO1: Fundamental knowledge of different classes of dyes and finishes.

CO2: Theoretical understanding of dyeing, printing and finishing in relation to the substrate and dye-print paste-finishes.

CO3: Hands on exposure to laboratory dyeing, printing and finishing and to apply the knowledge at home and in industry.

Unit No.	Topic	Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY									
I.	Introductory terms: 1. Explanation of terms related to light and color: Light, hue, value, intensity, dyes, pigments, etc.	10	10	1,2	1,2	5	Employability	Global	Environment Sustainability
II.	Dyes and their Application: 1. Classification of Dyes 2. Preparation of substrate for dyeing and the dye bath. 3. Application of dyestuff on textiles with focus on auxiliaries and temperature 4. Different classes of dyes used on various substrates –direct, basic, acid, vat, Azoic, reactive, disperse dyes.	20	25	3,4	2,3	5	Skill Development	Global	Environment Sustainability

PRACTICAL

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

III.	Printing of Textiles: 1. Pre-Preparation of substrate for printing 2. Preparation of, print paste, printing table and application through a. Direct styles – stencil, block printing, printing flatbed hand screen, semi-automatic, rotary screen printing and roller printing method b. Resist styles - Tie & Dye and Batik printing c. Discharge and other modern methods of printing 3. Comparison of different methods of printing in terms of production cost, production output, design limitation, fabric limitation and efficiency of dye utilization	20	25	1,2	2,3	5	Employability	Global	Environment Sustainability
IV.	Dyeing experiments on yarn and fabric with different classes of dyes: 1. Dyeing of cotton yarn with direct dyes, basic dyes by mordanting, vat, azoic and reactive dyes 2. Dyeing of protein and polyamide fibres with basic and acid dyes 3. Dyeing of polyamide and polyester fabrics with dispersedyes.	20	20	3,4	2,3	5	Employability	Global	Environment Sustainability
V.	Experiments Printing and Finishing of Textiles 1. Printing of fabrics using: a. Preparatory finishing experiments. b. Printing with Direct style – stencil, block and flatbed screenprinting c. Printing with Resist style – Tie & die, batik printing.	20	20	4,5	2,3	5	Employability	Global	Environment Sustainability

SUGGESTED EVALUATION

	Marks	SEE (50% UA)	
Class test (Written exam)	25	Final Test (Written exam)	50
Lab work (Dyeing experiments) + Journal	10		
Lab work (Printing experiments) + Journal	10		
Attendance	05		
Total	50	Total	50

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

REFERENCES	
1.	Chavan R.B., (1979) Textile Printing [Book of papers], Dept. of Textile Technology, IIT New Delhi.
2.	Giles G.H., (1974.) Laboratory Course in Dyeing, Hart & Clough., Bradford, England.
3.	Hess K.P., (1966) Textiles Fibres and their use, New Delhi, Oxford & IBHP Publishing Co.
4.	Hollen N. and Saddler J., (1977) Textiles. New York Macmillan Co.
5.	Joseph M, (1976) Essentials of Textiles. Rinehart & Winston, New York
6.	Kale D.G.(1976),Principles of Cotton Printing, Maharaja Brothers Super Market Basement, Ahmedabad
7.	Mittal R. M.(1985), Cotton Cloth Dyeing, The Textile Association Education, Bombay
8.	Shah H.A. &Doshi S.M.(1984),Roller Printing, The Textile Association Education System, Bombay.
9.	Shah Saraiya N.S. and Gupta P.C. Technology & Management on printing.
10.	Shenai V.A.(1979), Chemistry of Dyes and Principles of Dyeing, Sevak Publication, Bombay.
11.	Shenai V.A.(1977), Technology of Dyeing, Sevak Publication, Bombay.
12.	Trotman E.R. (1975) Dyeing & Chemical Technology of Textile Fibre, Charles Griffin & Co. Ltd. London.
13.	Vaidya A.A. n Trivedi S.S. (1975), Textile Auxiliaries & Finishing Chemicals, Ahmedabad, Textile Industry Research Association.
14.	Muthu, S.S (2018), Detox Fashion: Sustainable Chemistry and Wet Processing, Springer, Softcover reprint of the original 1st ed.
15.	Skelly,K,J (2003)Water Recycling in Textile Wet Processing, Society of Dyers & Colourists.
16.	Chakraborty. J.N. (2014), Fundamentals and Practices of Colouration of Textiles, Woodhead Publishing
17.	Mohammad. S, Guoqiang. C, Ren-Cheng T (2018), Handbook of Textile Coloration and Finishes, SP LLC, USA

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc. (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0				
Year	II	APPAREL MARKETING AND MERCHANDISING (Major 10)	Credits /Hours per week Hours per semester	4(4+0) Credits / 04 hours per week Theory 60 hours/ Total: 60 hours
Semester	IV	Year of Introduction: 2024-25 Year of revision:	Maximum Marks /Grade	100 Marks
Mode of Transaction		Lecture & Tutorials		

Course outcome (CO)

CO1: Familiarization of fundamental concept of business marketing and retailing.

CO2: Understanding of the evolutionary growth of the fashion Industry and the supportive role of different Industries.

CO3: Application of conceptual framework of marketing management and its applications in decision making under various environmental constraints.

CO4: Equip the students with creative risk taking and to undertake the business pathways employing analytical skills in relation to the business of apparels.

Unit No.	Topic	Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
-----------------	--------------	----------------------	-----------------------	-----------------	-----------	------------	--	--	---

THEORY

I.	Apparel Business 1. Scope and forms of Business Environment 2. Market Category and special product groups 3. Apparel manufacturing and International fashion centers	09	15	1,2	1,2	11	Entrepreneurship Employability	National	Professional Ethics Environment Sustainability Gender
II.	Retailing Environment 1. Introduction to Retailing 2. Historical Perspective 3. Domestic and International markets 4. Modern Retail Environment 5. Visual Merchandising	09	15	1,2,3	1,2	11	Entrepreneurship Employability	National	Professional Ethics Environment Sustainability Gender
III.	Market Research & Marketing 1. Marketing Mix 2. Segmenting, Targeting and Positioning 3. Market Research 4. Sustainable Marketing and Social responsibility	15	25	1,2,3,4	1,2,3	11	Entrepreneurship Employability	National	Professional Ethics Environment Sustainability Gender

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

IV.	Trend Research & Forecasting 1. Trend research and agencies 2. Customer engagement, Value and Relationships 3. Perspectives on Consumer Behaviour 4. Range Development and Line Extension	12	20	1,2,3	1,3,4	11	Entrepreneurship Employability	National	Professional Ethics Environment Sustainability Gender
V.	Communication & Promotion Strategies 1. Communication Process 2. Creative Strategy and Media Planning 3. Advertising and Sales Promotion 4. Internet and Interactive Media	15	25	1,2,3,4	2,3,4	11	Entrepreneurship Employability	National	Professional Ethics Environment Sustainability Gender

SUGGESTED EVALUATION

CCE (50% IA)	Marks	SEE (50% UA)	Marks
Class Assignment / Class Interaction / Test / Quiz	05	Written Exam	50
Class Test	30		
Home Assignment (Descriptive) / Survey/ Case study / Presentation	10		
Attendance	05		
Total	50	Total	50

REFERENCES

1	Chakra borty, J.N. (2010). Fashion Retailing: A multi- channel, (1 st ed.). WPI Publications, New-Delhi.
2	Clarke, J., (2015). Fashion Merchandising- Principles and Practices, (1 st ed.). Palgrave Publishing, London.
3	Das, S.K., Parwej, A.M.M., Bhattacharyya, S. & Kale, K.M. (2024). Marketing Management, (1 st ed.). Taran Publication, Delhi.
4	Davis, L. B., (2020). The Business of Fashion- Designing, Manufacturing and Marketing, Oregon State University, U.S.A.
5	Diamond, E., (2012). Fashion Retailing- A multi- channel Approach, (2 nd ed.). Pearson Publications, Delhi.
6	Doris, K. G. H. & Fay Y. (2012). Merchandising of Fashion Products, (1 st ed.). Pearson Education, Prentice Hall, New Jersey.
7	Easey, M., (2011). Fashion Marketing, (5 th ed.). Wiley-Blackwell Publications, U.K.
8	Gibson, V. G., (2015). Retail Management- Functional Principles and Practices, (1 st ed.) Jaico Publishers, Ahmadabad.
09	Granges, M. M., (2020). The Fashion Industry and its careers, Fairchild Books, U.S.A.
10	Hancock, J. H., (2019). The Fashion Business, Bloomsbury Visual Arts, Honkong.
11	Lafleur, R., (2011). Merchandise Planning Workbook, (1st ed.). Fairchild Books, New York.
12	Portolese, L. D., (2012). Core Concepts in Fashion, Mc Graw-Hills Inc., New York.

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

13	Posner, H., (2011). Marketing Fashion- Strategy, Branding and Promotion, (2 nd ed.). Lawrence King Publishing Ltd., London.
14	Posner, H., (2011). Marketing Fashion, Lawrence King Publishing Ltd., London.
15	Roseau, J. A.,(2014). Apparel Merchandising- The Line Starts here, (1 st ed.). Fairchild Books, New York.
16	Ruth, P. M., (2012). Marketing Fashion-A Global Perspective, (1 st ed.). Fairchild Books, New York.
17	Stephens, G., & Frings, (2008). Fashion from Concept to Consumer, (9th ed.)Prentice Hall, New Jersey.
18	Stone, E., & Samples J. (2011). Fashion Merchandising-An Introduction, Mc Graw-Hills Books, New York.
19	Troxell ,M. & Beatrice J. (1990). Fashion Merchandising, Mc Graw-Hills Inc., U.S.A.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0				
Year	II	ELEMENTARY TEXTILES (Minor 3)	Credits /Hours per week Hours per semester	4(4+0) Credits / 04 hours per week (Theory: 60 hours)Total: 60 hours
Semester	IV	Year of Introduction: 2024-25 Year of revision:	Maximum Marks	100 Marks
Mode of Transaction		Lecture and Tutorial		

Course outcome (CO)

CO1: Understanding of fundamental concepts of textiles to judge the textile qualities as consumer's/ fashion designers.

CO2: Knowledge of essential and Desirable properties of textile fibres, concepts of Polymer and Polymerization in the context of fabric production.

CO3: Understanding of historical significance, production process and properties of textile fibres according to end uses.

CO4: Knowledge of Yarn and their characteristics as the basic building block of fabrics.

CO5: Ability to identify fabrics based on the fabric construction methods and their properties.

Unit No.	Topic	Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
-----------------	--------------	----------------------	-----------------------	-----------------	-----------	------------	--	--	---

THEORY

I.	Introduction to Textile fibres - Textile terms - Polymer and Polymerization - Properties of Textile fibres: Essential and Desirable - Different types of Classification of Textile fibres	9	15	1,2	1,2	12	Employability, Skill Development	Global	Professional Ethics Environment Sustainability
II.	Natural fibres - Cellulosic fibres - History, Production process, Chemical Composition, Properties (Microscopic, Physical, Chemical, Thermal and Biological) - Use and Care - Protein fibres - History, Production process, Chemical Composition, Properties (Microscopic, Physical, Chemical, Thermal and Biological) - Use and Care	15	25	1,2	3	12	Employability, Skill Development	Global	Professional Ethics Environment Sustainability

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

III.	Manmade fibres 1. Fibres from natural, Synthetic and Inorganic polymers a. History, Production process, Chemical Composition, Properties (Microscopic, Physical, Chemical, Thermal and Biological) b. Use and Care	15	25	1,2	3	12	Employability, Skill Development	Global	Professional Ethics Environment Sustainability
IV.	Yarns 1. Definition, Types, Methods of Yarn Construction 2. Spinning Methods 3. Yarn Number/Yarn Count(Direct and Indirect System), Yarn Twist, Yarn defects	06	10	1,2	4	12	Employability, Skill Development	Global	Professional Ethics Environment Sustainability
V.	Fabric Construction methods 1. Woven fabrics a. History of Weaving, Components of Weaving, Mechanism of Weaving, Types of looms b. Basic and Decorative weaves: Types, Construction and Uses 2. Knitted fabrics a. History of Knitted fabrics, Terminology, Knitting elements, Classification of Knits, Defects in Knitted fabrics, Use and Care 3. Non-Woven fabrics a. Definition, Types of Nonwoven fabrics, Selection and Preparation of fibres, Properties, Use and Care 4. Other methods of fabric Construction a. Nets, Laces, Braids, Crochet, Macramé etc.	15	25	1,2	5	12	Employability, Skill Development	Global	Professional Ethics Environment Sustainability

SUGGESTED EVALUATION

CCE (50% IA)	Marks	SEE (50% UA)	Marks
Class test (Written exam)	25	Final Test (Written exam)	50
Objective test/ Home Assignment	10		
Sample File Preparation/ Poster Presentation	10		
Attendance	05		
Total	50	Total	50

REFERENCES

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

1.	Booth, J.E., (2018). Principles of Textile Testing, CBS Publishers and Distributors Private Limited
2.	Bukayev.(1984).General Technology of Cotton Manufacturing Mir Publications.
3.	Gohil E.P.G. and Vilensky L.D., (1987). Textile Science, CBS Publishers and Distributors, Delhi.
4.	Hollen N and Saddler J.,(1973).Textiles, The MacMillan Co.
5.	Koch P.A., (1963). Microscopic and Chemical Testing of Textiles, New York Textile Book Service.
6.	Mishra S.P., A Text Book of Fiber Science and Technology, New Age International Publishers, New Delhi.
7.	Rastogi D. and Chopra S. (2017). Textile Science, Orient Black swan Private Limited.
8.	Sekhri S.,(2011). Textbook of fabric Science: Fundamentals to finishing, PHI
9.	Trotman E.R., (1975). Dyeing and Chemical Technology of Textile Fibers, Charles Griffin & Co. Ltd., London.
10.	Wynne A., (1998) The Motivate Series, Macmillan Education Ltd., London.

Bloom's Taxonomy (BT) Levels:

1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0				
Year	II	Textile Value Addition: Methods and Applications (SEC 4)	Credits /Hours per week Hours per semester	2(0+2) Credits / 04 hours per week(Practical: 60 hours) Total: 60 hours
Semester	IV	Year of Introduction: 2024-25 Year of revision:	Maximum Marks	50 Marks
Mode of Transaction		Practical		

Course outcome (CO)

CO1: Knowledge about different techniques of surface ornamentations.

CO2: Developing skills of value addition by various surface ornamentation techniques.

CO3: Develop product for functionality and design.

Unit No.	Topic	Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
----------	-------	---------------	----------------	----------	----	-----	---	---	--

PRACTICAL

I.	Surface Ornamentation Techniques 1. Value addition: Types and its stages 2. Terminology of surface ornamentation 3. Types of coloring agent and stages of dyeing 4. Styles and methods of printing	12	10	1,2	1	10	Employability Entrepreneurship	National Global	Environment Sustainability Professional Ethics
II.	Exploring Materials and Techniques for Value Addition 1. Using trims and other decorative items e.g., shells, beads, metallicwires, stones, coins etc. 2. Using decorative techniques using such as Layering, patch work,cording, needle weaving, tucks, draw thread work etc. 3. Using dyes, pigments and techniques of dyeing and printing.	36	80	2,3	2,3	10	Employability Entrepreneurship skill Development	National Global	Environment Sustainability Professional Ethics
III.	Translate own projects into finished products using different techniques.	12	10	2,3,6	2,3	10	Employability Entrepreneurship Skill Development	National Global	Environment Sustainability Professional Ethics

SUGGESTED EVALUATION

CCE (50% IA)	Marks	SEE (50% UA)	Marks
Written Class Test	10	Practical Semester Exam	25

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

Practical Class Test	10		
Craft work/ Co-curricular work	15		
Total	25	Total	25

REFERENCES

1.	Foulds J., (1990) Dyeing and Printing: A Handbook, Intermediate Technology Publications.
2.	Fernandez A. and Quartino D., (2014) Fashion print design: From idea to final print, Schiffer Publishing Ltd; 1st edition.
3.	Kaldolph S. J, Langford A. L.,(2002) Textiles, Prentice Hall, Pearson Education, Inc., New Jersey.
4.	Wells K., (1997) Fabric Dyeing and Printing, Interweave Press Inc.
5.	Wisbrun L., (2012) <i>Mastering the art of fabric printing and design - techniques, tutorials and inspiration</i> , Chronicle Books.
6.	Wyne A., Textiles THE MOTIVATE SERIES, Macmillan Texts for Industrial Vocational and Technical Education.

Bloom's Taxonomy (BT) Levels:

1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Second Year – Level 5.0										
Year	II	Laundry Science and Finishes (VAC 2)	Credits /Hours per week Hours per semester		2(2+0) Credits / 02 hours per week (Theory: 30 hours) Total: 30 hours					
Semester	IV	Year of Introduction: 2024-25 Year of revision:	Maximum Marks		50 Marks					
Mode of Transaction		Lecture and Tutorials								
Course outcome (CO) CO1: Understand the basic steps of laundering and their suitability of fabrics. CO2: Understanding of different types of Soaps, detergents, auxiliaries and their uses. CO3: Procedure of removing stains from different textile materials. CO4: Understand different methods of storage according to textile materials.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship(Ent) Skill Development (SD)	Relevance toLocal(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I.	Materials and machines for laundry 1. Pretesting of garments before Laundering-Seam slippage, Carelabeling, Fabric weight etc. 2. Water a. Sources of water b. Type of hardness -Temporary or Permanent c. Methods of removing Hardness- advantages and disadvantages 3. Soaps and Detergents 4. Bleaches and whitening agents 5. Laundry reagents- Acidic and alkaline 6. Additives and Stiffening agents used in Laundry- Rice Starch,Tapioca, Sago, Maida and Commercial Starch 7. Stain removal of different textile materials		12	40	1,2	2,3	5	Skill Development	Global	Environment Sustainability Professional Ethics,

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

II.	Laundering and finishing of natural and synthetic textile materials 1. Care labels 2. Pretreatment techniques 3. Washing- equipment and techniques 4. Drying - principles, equipment and techniques, merits and demerits 5. Ironing - equipment and techniques 6. Dry cleaning of clothes 7. Finishing- Mechanical and Chemical finishing	12	40	1,2	1	5	Skill Development	Global	Professional Ethics, Environment Sustainability
III.	Care and storage of different Textiles and Costumes 1. Traditional and Unconventional Methods 2. Preservation techniques	6	20	1,2	4	5	Skill Development	Global	Professional Ethics, Environment Sustainability

SUGGESTED EVALUATION

CCE (50% IA)	Marks	SEE (50% UA)	Marks
Class test (Written exam)	15	Final Test (Written exam)	25
Lab work / Report writing / Home assignment /Authenticate problem solving	10		
Total	25	Total	25

REFERENCES

1.	Bhargav T.C. P., (2005).Textile and Laundry, Common Wealth Publisher.
2.	D` Souza N.,(1998). Fabric Care, New Age International Publishers.
3.	Dantyagi S.,(1996). Fundamentals of textiles and their Care, Orient Longman Ltd. New Delhi.
4.	Gupta S., (2005).Text Book of clothing Textiles and Laundry, Kalyani Publishers New Delhi.
5.	Joseph M L., (1976). Essentials of Textiles, Holt Rinehart and Winaton New York.
6.	Michael J., (1976). Science for Textile Designers, Elek Science, London.
7.	Pushpanjali., (2016). Textiles Clothing and Laundry, Random Publications.
8.	Rouette, H. K., (2001). Encyclopedia of textile finishes. Berlin: Springer Verlag.
9.	Sekhri S., (2010).Textbook of fabric science: Fundamentals to finishing, Prentice Hall India Learning Private Limited.
10.	Trotman E.R., (1964). Dyeing and Chemical Technology, London Charles Griffin and company Ltd.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	--	----------------------	----------------

B.Sc. (Clothing and Textiles) – Second Year – Level 5 (to be offered at the end of Second Year on Exit)										
Year	II	Summer Internship (Experiential Learning)	Credits / Hours per week Hours per Semester		4 (0+4) / 30 hours/week Practical: Total 120 Hours					
Semester	IV Exit	Year of Introduction: 2024-25 Year of Syllabus Revision:	Maximum Marks		100 Marks					
Mode of Transaction		Demonstrations, Hands On Training and Tutorials, Interaction, dialogue and collaboration with potential employers								
Course Outcome (CO) CO1 To get on site experiential learning from recognized Industry/Institutions/Agency. CO2 Broaden learning opportunities by combining physical and digital modes of learning blended with a mentor as per the need and convenience. CO3 Development of problem-solving and decision-making skills that enable teamwork and collaboration culture to promote professional goals.										
Unit No.	Topic		Contact Hours	Weightage (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship(Ent) Skill Development(SD)	Relevance to Local(L)/ National (N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
I	30 days (4 weeks) of Experiential Learning in any one of the following units (List not exhaustive) under the guidance of a mentor / Supervisor to promote perspective, practice, competency and performance that the employment market demands a. Printing unit b. Boutique c. Fashion house d. Accessory house e. NGOs for Art / Craft / Design f. Retail store g. Fashion Styling and Consultancy		108	90	1, 2, 3, 4, 5, 6	1, 2, 3	13,14,15	Employability Entrepreneurship Skill Development	Local	Gender / Environment Sustainability / Human Values / Professional Ethics
II	Compilation of report and presentation for the final assessment. (Certificate to be provided by the Institution/Agency)		12	10	1, 2, 3, 4, 5, 6	2, 3	13,14,15	Employability Skill Development	Global	Professional Ethics

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं शिवं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2025-26
---	---	-----------------------------	-----------------------

Students who opt to exit after completion of the Second year and have secured 44 credits will be awarded a UG certificate if, in addition they complete one vocational course of 4 credits during the summer vacation of the Second year. These students are allowed to re-enter the degree programme within three years and complete the degree programme within the stipulated maximum period of 7 years

DEPARTMENT OF CLOTHING AND TEXTILES

Enclosure 4a PROPOSED SY Clothing and Textiles COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 16/04/2024 at 04:30 PM in the virtual mode AND implemented from 2024-25 FY

**DEPARTMENT OF CLOTHING AND TEXTILES
FACULTY OF FAMILY AND COMMUNITY SCIENCES
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, BARODA**

**Programme: B.Sc. (Family and Community Sciences) - CLOTHING AND TEXTILES (CLOTHING AND TEXTILES)
Third Year Course Syllabus with PSO**

Programme Specific Objectives (PSO) - CLOTHING AND TEXTILES (CLOTHING AND TEXTILES)

- PSO 1: Demonstrate a comprehensive understanding of the traditional textiles and costumes of India by analysing their cultural, historical, and socio-political significance, and applying this knowledge to document, preserve, and reinterpret them in contemporary design contexts.
- PSO 2: Develop expertise in leveraging advanced manufacturing technologies and innovative processes to design and produce high-quality, commercially viable garments that meet industry standards and integrate sustainable practices and tools in garment manufacturing.
- PSO 3: Demonstrate a comprehensive understanding of woven, non-woven, and knitted textile structures, for pattern development and fabric construction.
- PSO 4: Develop proficiency in hand knitting and loom weaving techniques, utilizing creativity to produce unique and practical textile samples, while integrating knowledge of industry processes and cutting-edge methods to enhance product development.
- PSO 5: Demonstrate a thorough understanding of household textiles, including the selection of appropriate materials, care and maintenance techniques, and the ability to make informed purchasing decisions based on quality, durability, and functionality.
- PSO 6: Develop a comprehensive understanding of design principles and their application, while gaining the ability to critically assess the impact of design choices on aesthetics and functionality.
- PSO 7: Develop innovative and practical clothing and textile products by applying design thinking principles, integrating consumer needs, and analysing market trends.
- PSO 8: Enhance problem-solving abilities by creating and optimizing functional and aesthetically appealing designs through iterative processes, with a focus on user feedback, sustainability, and manufacturing feasibility.
- PSO 9: Develop proficiency in draping techniques to craft three-dimensional costume designs while conceptualizing and creating original, innovative costumes.
- PSO 10: Demonstrate proficiency in performing standard testing procedures and interpreting results to assess quality standards in textiles.
- PSO 11: Apply analytical and decision-making skills to relate fabric properties to their performance and end-user requirements, aiding in quality control and product development.
- PSO 12: Equip students with the ability to understand fundamental research concepts, design robust frameworks, and apply appropriate methodologies for solving specific research problems.
- PSO 13: Develop proficiency in data collection, analysis, interpretation, and the scientific preparation and presentation of research proposals.
- PSO 14: Graduates will demonstrate the ability to conceptualize and execute personalized styling and fashion makeovers by integrating advanced knowledge of body shapes, cultural aesthetics, trends, and sustainable practices, culminating in professional portfolios showcasing their creative and technical expertise.
- PSO 15: Graduates will acquire expertise in analysing the social and psychological dimensions of clothing, evaluating its impact on individual behaviour in diverse social contexts, and understanding the relationship between clothing choices and consumer behaviour to inform research and professional practice in fashion and apparel industries.
- PSO 16: Establish professional connections with industry experts and foster relationships that lead to future career opportunities, through reflection on the skills and knowledge acquired during the internship experience

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) (REGULAR) Faculty of Family and Community Sciences (Third Year) – Semester 5 and 6 (Level 5.5)

DEPARTMENT OF CLOTHING AND TEXTILES

PROGRAMME STRUCTURE and SYLLABUS FOR THIRD YEAR
B.Sc. (Family and Community Sciences) – CLOTHING AND TEXTILES (CLOTHING AND TEXTILES)

Year (level)	Semester	Course Name	Credit	Course type
III (5.5)	5	Historic Textiles and Costumes of India	4(4+0)	Major 11
		Garment Manufacturing Technology and Advancement	4(2+2)	Major 12
		Textile Manufacture and Design	4(2+2)	Major 13
		1 Minor from a basket of 6 courses Household Textiles	4(4+0)	Minor 4
		1 Minor from a basket of 6 courses Fundamentals of Design	4(4+0)	Minor 5
		Design Thinking and Product Development	2 (0+2)	SEC 5
		TOTAL	22 (16+6)	
	6	Draping and Costume Designing	4(0+4)	Major 14
		Textile Testing, Finishing and Quality Control	4(2+2)	Major 15
		Basics of Research	4(4+0)	Major 16
		1 Minor from a basket of 6 courses Fashion Makeover	4(4+0)	Minor 6
		Social and Psychological Aspects of Clothing	2(2+0)	AEC 5
		Orientation to Clothing Industry	4 (0+4)	Internship
		TOTAL	22(12+10)	
	UG DEGREE – on completion of three years			

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) - REGULAR Third Year – Semester 5 (Level 5.5)										
Year	III	HISTORIC TEXTILES AND COSTUMES OF INDIA (Major 11)	Credits /Hours per week Hours per semester		4(4+0) Credits / 04 hours per week (Theory: 60 hours) Total: 60 hours					
Semester	I	Year of Introduction: 2023-24 Year of revision:	Maximum Marks / Minimum Marks		100 Marks / 36 Marks					
Mode of Transaction		Lecture, Tutorials, Case Studies, Exposure visits, Role Play								
Course outcome (CO) CO1: Identify and appreciate the traditional textiles and costumes of different regions in India, focusing on materials, techniques, patterns, and cultural significance. CO2: Able to analyse the historical, cultural, and socio-political influences on the development of Indian textiles and costumes. CO3: Evaluate the unique features of regional textiles and costumes and their relevance in contemporary design. CO4: Gaining an insight in the draping styles of the Indian costumes through experiential learning. CO5: Gain an understanding of the preservation, conservation and sustainability of Indian textiles and costumes.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I.	Indian Textiles and Costumes – Overview of past and present influences 1. Historical Overview a. Origin and evolution of Indian textiles and costumes. b. Influence of ancient civilizations (e.g., Indus Valley, Vedic period). c. Role of trade routes (Silk Road, Maritime trade) in spreading Indian textiles globally. 2. Cultural Significance a. Textiles and costumes as reflections of India’s cultural diversity. b. Role of textiles and costumes in religious and social ceremonies. c. Influence of geography on textile traditions (e.g., desert, coastal, and Himalayan regions). 3. Socio- Political Influences a. Impact of colonization on Indian textile traditions (e.g., decline of handloom due to British policies). b. Revival movements and the role of Mahatma Gandhi in promoting Khadi		12	20	1,2	1,2	1	Employability Skill Development	National	Environment Sustainability Professional Ethics

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

	4. Contemporary Relevance a. Adaptation of traditional textiles and costumes in modern fashion. b. Influence of Indian textiles on global design. c. Role of Indian artisans in preserving cultural heritage.								
II.	Iconic Traditional Textiles of India 1. Traditional Embroidered Textiles of different states a. Kashmir, Punjab, Himachal Pradesh, Gujarat, Uttar Pradesh, Manipur, Karnataka, West Bengal, etc. 2. Painted and Printed Textiles of India a. Understanding of natural dyes b. Painted textiles of India – Kalamkari, Mata-ni-Pachhedi, Phad, Picchwai, Madhubani, Thanka, etc. c. Printed Textiles of India – Bagru, Ajarakh, Bagh, etc. 3. Woven Textiles of India a. Indigenous raw materials (cotton, silk, wool, jute, etc.). b. Hand-spinning (Charkha) and Traditional looms c. Prominent woven textiles of India – Paithani, Mashru, Patola, Kota doria, etc. 4. Regional textile identities and their global significance	21	35	1,2	1,2,3	1	Employability Skill Development	National Global	Gender Environment Sustainability Professional Ethics
III.	Traditional Costume Heritage of India 1. Regional costumes for men, women and/or children - Accessories and embellishments and their cultural relevance during special occasion, festivals, and rituals. a. North Zone – Kashmir, Punjab, Himachal Pradesh b. South Zone – Andhra Pradesh, Tamil Nadu, Kerala c. East Zone – Orissa, West Bengal, Assam d. West Zone – Gujarat, Rajasthan e. Central Zone – Uttar Pradesh, Madhya Pradesh 2. Evolution of sari and dhotis draping styles and regional variations 3. Tribal costumes, accessories and embellishments	21	35	1,2	1,2,3,4	1	Employability Skill Development	National	Gender Environment Sustainability, Professional Ethics
IV.	Preservation, Conservation, and Sustainability of Indian Textiles and Costumes 1. Need for preservation and conservation of Indian textiles and Costumes - Challenges faced. 2. Government initiatives: GI tagging, schemes for promoting Indian textile	6	10	1,2,3	5	1	Employability Skill Development	National	Gender Environment Sustainability, Professional Ethics

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

	heritage and its artisans.								
	3. Role of NGOs and organizations in promoting and sustaining Indian crafts.								
	4. Sustainable practices in the production and marketing of Indian textiles.								

SUGGESTED EVALUATION

CCE (IA 50%)		Marks	SEE (UA 50%)		Marks
Class test (Written exam)		20	Written Semester Exam		50
Class Assignment /Home Assignment/ Case studies		10			
Field Assignment / Presentation		20			
Total		50	Total		50

REFERENCES

1.	BrijBhushan, J. Costumes and Textiles of India, Taraporevala, 1958
2.	Chandra, M. "Costumes Through the Ages." In Treasures of Indian Textiles" Marg Publications, Mumbai, 1980
3.	Crill, R.Indian Ikat Textiles, Victoria and Albert Museum, Indian Art Series, Weatherhill, New York, 1998
4.	Dhamija, J and Jain, J. eds. Handwoven Fabrics of India, Mapin Publications, Ahmedabad, 1989
5.	Frater, J Threads of Identity, Mapin Publishing, Ahmedabad. 1995
6.	Ghurye, G.S Indian Costume, Reprint of second edition published in 1966. Bombay, 1995
7.	Gillow, J, and Barnard, N, Traditional Indian Textiles,London, 1991
8.	Gittinger, M. Master Dyers to The World, exhibition catalogue,Textile Museum, Washington, D.C., 1982
9.	Irwin,J and Hall, M. Indian Painted and Printed Fabrics Vol.1,Calico Museum, Ahmedabad, 1971
10.	Jayakar, P Gaiety in Colour and Form: Painted and Printed Cloths Marg, XXXI, 4, pp.23-34,1978
11.	Mohanty, B.C, and Mohanty, J.P, Study of Contemporary Textile Crafts of India,Block Printing and Dyeing of Bagru, Rajasthan, 1983
12.	Morrell, A. Indian Embroidery Techniques at the Calico Museum of Textiles, Ahmedabad, 1999
13.	Murphy, V &Crill, R.Tie-dyed Textiles of India: Tradition and Trade, London and Ahmedabad, 1991
14.	Paine, S Embroidered Textiles (Study of the Source of many patterns in religions, cults and belief) London, New York and Bern, 1990/1995/1997

Bloom's Taxonomy (BT) Levels:

1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) (REGULAR)Third Year Semester – 5 (Level 5.5)												
Year	III	GARMENT MANUFACTURING TECHNOLOGY AND ADVANCEMENT (Major 12)				Credits /Hours per week Hours per semester		4(2+2) Credits / 6 hours per week (Theory: 30 hours, Practical 60 hours) Total: 90 hours				
Semester	I	Year of Introduction: 2023-24 Year of revision:				Maximum Marks / Minimum Marks		100 Marks / 36 Marks				
Mode of Transaction		Lecture and Practical										
Course outcome (CO) CO1: Understand the key processes and innovation in manufacturing garment industry. CO2: Explore technology in the garment production. CO3: Gain hands-on experience with modern manufacturing techniques and tools. CO4: Ability to apply Sustainable Practices in garment manufacturing. CO5: Acquire skills to create industry standard commercially viable garments.												
Unit No.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY												
I.	Overview and Principle of Garment Manufacturing 1. Introduction a. Evolution Garment Manufacturing b. Overview of fashion apparels 2. Principle of Garment Construction a. Anthropometrics Measurements b. Accurate body measurements c. Requirements for good garment Construction (Grain, Seam, Workmanship, and Tips on stitching seams, pockets collars and sleeves) d. Types of Stitching, Needles, Threads and Threads Packages e. Common Sewing Problems f. Instruction for drafting and its Importance				8	15	1,2	1	2	Employability, Entrepreneurship, Skill Development	Global	Gender, Human values
II.	Techniques in Pattern Development and Industrial Garment Manufacturing Processes 1. Principles and Methods of Adaptation, Grading and Sizing Pattern drafting, Dart manipulation, Manual and Computerized Pattern Grading				10	20	1,2	1,2	2	Employability, Entrepreneurship, Skill Development	Global	Gender, Human values

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

	2. Industrial Processes, Machinery, and Latest Developments in - Pattern Making, Garment Sampling, Pattern Grading, Marker Making and Cutting, Ticketing and Bundling, Sewing, Finishing and Quality Checking								
III.	Technological Advancement in Garment Manufacturing a. Use of AI in Garment manufacturing b. Technological advancement in Garment manufacturing c. Internet of Things (IOT) in Garment Production d. Role of Block Chain in Supply Chain Management e. Sustainable Practices in Garment Manufacturing Industry. f. Use of CAD and CAM in Garment Manufacturing g. 3-D Sampling	12	15	1,2	2	2	Employability, Entrepreneurship, Skill Development	Global	Gender, Environment Sustainability
PRACTICAL									
IV.	1. Utilize zero waste Management a. Seamless garments construction b. Minimalist design aesthetics c. Fabric waste management d. Innovative (environmental friendly) material 2. Construction of women’s garments incorporating technology and acquired skills a. Kameez b. Salwar c. Churidar d. Saree blouse	40	30	3,5	3,4,5	2	Employability, Entrepreneurship, Skill Development	Global	Environment Sustainability
V.	1. Principle for construction of men’s garments incorporating technology and acquired skills a. Shirt b. Trouser 2. Exposer Visit to understand practical application of Technology in Garment Manufacturing Unit	20	20	3,5	3,4,5	2	Employability, Entrepreneurship, Skill Development	Global	Gender, Environment Sustainability
SUGGESTED EVALUATION									
CCE (50% IA)						SEE (50% UA)			
Evaluation Type		Marks				Evaluation Type		Marks	
Class Test		15				Practical Exam		50	
Class Assignments		10							

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

		Lab work	25		
		Total	50	Total	50
REFERENCES					
1	Adobe. (2013). Adobe Photoshop CS6: Classroom in a Book. Dorling Kindersley Publication.				
2	Armstrong, H. J. (2010). Patternmaking for Fashion Design (5th ed.). Prentice Hall.				
3	Black, S. (2012). The Sustainable Fashion Handbook. Thames & Hudson.				
4	Brockman, H. L. (1965). The Theory of Fashion Design. John Wiley & Sons				
5	Burns, L., & Bryant, N. (1997). The Business of Fashion: Designing, Manufacturing, and Marketing. Fairchild Publications.				
6	Carr, H., & Latham, B. (2006). The Technology of Clothing Manufacture (3rd ed.). Wiley-Blackwell.				
7	Fairhurst, C. (2008). Advances in Apparel Production. Woodhead Publishing.				
8	Frings, G. S. (2008). Fashion: From Concept to Consumer (9th ed.). Pearson, Prentice Hall.				
9	Glock, R. E., & Kunz, G. I. (2005). Apparel Manufacturing: Sewn Product Analysis (4th ed.). Pearson.				
10	Sinclair, R. (Ed.). (2014). Textiles and Fashion: Materials, Design, and Technology. Woodhead Publishing.				
11	Tate, S. L., & Edwards, M. S. (2004). Inside Fashion Design. Prentice Hall.				

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) - REGULAR Third Year – Semester 5 (Level 5.5)										
Year	III	TEXTILE MANUFACTURE AND DESIGN (Major 13)	Credits / Hours per semester				4 (2+2) Credits / 6 hours per week (Theory: 30 hours, Practical: 60 hours) Total: 90 Hours/Semester			
Semester	II	Year of Introduction: 2023-24 Year of Syllabus Revision: -	Maximum Marks / Minimum Marks				100 Marks/ 36 Marks			
Mode of Transaction		Lecture and Practical, Tutorial, Demonstration								
Course Outcome (CO) CO1: Acquire comprehensive exposure to the field of woven, non-woven and knitted. CO2: Creative manipulation of hand knitting and loom weaving techniques, producing unique and innovative knitted patterns and woven fabric samples with practical applications. CO3: Basic knowledge of processes, tools, and innovative methods for the textile industry.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I.	Introduction to Textile Manufacturing Processes 1. Yarn-to-fabric conversion: Weaving, knitting, and non-woven technologies. 2. Other Construction Techniques: Braiding, Net, Lace, Laminating, Tufting, Stitch-bonding, composites etc.) 3. Innovations in textile manufacturing: Smart textiles, 3D knitting, and technical textiles		3	10	1,2	1	3	Employability	Local(L)/ National (N) /Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
II	Woven - Fabric Design and Development 1. Principle of woven fabric construction 2. History and development of the looms 3. Handloom looms and Looms mechanism- a. Parts of a loom and mechanism b. Preparation for weaving c. Calculating the length and width of the yarn d. Basic weaving operation 4. Factors affecting weaving properties and performance 5. Woven design fundamentals- Design, drafts and peg-plan 6. Fabric construction with basic weaves and their derivatives		15	22	1,2,3	1,3	3	Employability	Local(L)/ National (N) /Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
III	Knitted and Non-Wovens: History, Types, Properties, techniques, technologies and applications							Employability	Local(L)/ National (N) /Regional(R)/	Environment Sustainability, Professional Ethics

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

	1. Introduction to Knitted and Non-Woven Fabrics a. Historical evolution of knitting and non-woven technologies and industry. b. Importance of knitted and non-woven fabrics in the global textile industry. 2. Knitted Fabrics a. Knitting Terminology b. Types of machines (flatbed, circular, warp knitting machines) and their functionalities. c. Types of Knits, their characteristics, and end uses. d. Identification, causes, and remedies of common knitting defects e. Care and Maintenance 3. Non-Woven Fabrics a. Classification of Non-wovens b. Structural and functional characteristics of non-woven fabrics. c. Web Formation Techniques: Dry-laid, wet-laid, and spun laid methods. d. Web Bonding Techniques: Mechanical, chemical, and thermal bonding processes. e. Care of Non-Wovens 4. Advanced Technologies in Knitted and Non-Woven Fabric Production 5. Applications of Knitted and Non-Woven Fabrics	12	18	1,2,3	1,3	3		Global(G)	
PRACTICAL									
IV	1. Industry visit to witness manufacturing of Non-woven / Knits 2. Construction of hand / machine knitting samples	16	12	2,3,4,5	2,3	3, 4	Employability, Skill Development	Local(L)/ National (N) /Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
IV	1. Structural Textile Designing using techniques of hand weaving a. Hand Tapestry weaving b. Card / Tablet weaving 2. Handloom weaving - Basic weaves a. warp preparation b. loom setup c. weaving plain, twill, satin weaves	44	38	3,4,5	2,3	4	Employability, Skill Development	Local(L)/ National (N) /Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
SUGGESTED EVALUATION									
CEE (50% IA)					SEE (50% UA)				
Evaluation Type		Marks	Evaluation Type					Marks	
Class test (Written Exam)		20	Theory exam					50	
Lab work Assessment		25							
Home Assignment		05							
Total		50	Total					50	
REFERENCES									

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

1.	Albrecht, W., Fuchs, H., & Kittelmann, W. (Eds.). (2006). Nonwoven fabrics: Raw materials, manufacture, applications, characteristics, testing processes. Wiley & Co.
2.	Enakshi, B. (1932). Decorative designs and craftsmanship of India. D.B. Taraporewala and Sons and Company Pvt. Ltd.
3.	Gokarneshan, N. (2014). Fabric structure and design. NEWage International Publishers.
4.	Hann, M. A., and Thomas, B. G. (2005). Pattern of culture: Decorative weaving techniques. University of Leeds International Textile Archive.
5.	Held, S. E. (1978). Weaving: A handbook of fine arts (2nd ed.). Holt, Rinehart and Winston.
6.	Strual, M. (1977). Handweaving and cloth design. Viking Press.
7.	Philips, P., and Bunce, G. (1993). Repeat patterns: A manual for designers, artists, and architects. Thames and Hudson Ltd.
8.	Rastogi, D., and Chopra, S. (2017). Textile science. Orient Black Swan Printed Limited.
9.	Wynne, A. (1997). Textiles - Motivate series. Macmillan Education Ltd.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) (REGULAR) Third Year – Semester 5 (Level 5.5)										
Year	III	HOUSEHOLD TEXTILES (Minor 4)	Credits / Hours per semester				4 (4+0) Credits / 4 hours per week (Theory: 60 hours) Total: 60 Hours/Semester			
Semester	I	Year of Introduction: 2023-24 Year of Syllabus Revision:	Maximum Marks / Minimum Marks				100 Marks/ 36 Marks			
Mode of Transaction		Lecture , Tutorial								
Course Outcome (CO) CO1: Understanding about the type and material used in Household textiles CO2: Learnt about care and maintenance of Household Textiles. CO3: Understanding of right purchase of Household Textiles.										
Unit No.	Topic		Contact Hours	Weightage (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I.	Introduction to Household textiles 1. Definition and Importance of Household Textiles 2. Classification of Household Textiles 3. Care and Maintenance of Household Textiles		10	10	1,2	1,2	5	Employability	Global	Professional Ethics
II	Bed Linen and bath Linen 1. Bed sheets, blankets, mattresses, towels & shower curtain 2. Material, use and care of Bed linen and Bath linen 3. Fabric / weave Use in Bed linen		15	25	1,2	1,2	5	Employability	Global	Professional Ethics
III	Kitchen and Dining Textiles 1. Table cloth, napkins, kitchen towels and apron 2. Functional requirement 3. Material use and care of kitchen linen		10	25	1,2	1,2	5	Employability	Global	Professional Ethics
IV	Upholstery and Curtain fabrics 1. Properties , types and factor influences in selection of Upholstery and curtain 2. Maintenance and care of upholstery and curtain		15	25	1,2	1,2	5	Employability	Global	Professional Ethics
V	Trends and innovation in Household Textiles 1. Brands of Household Textiles 2. Innovation in household textiles (Nano technology, smart & multifunctional finish) 3. Case studies and market Analysis Exploring successful brands & products in the household textile industry.		10	15	1,2,3	1,3	5	Entrepreneurship	Global	Environment Sustainability

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

SUGGESTED EVALUATION				
CEE (50% IA)			SEE (50% UA)	
Evaluation Type		Marks	Evaluation Type	Marks
Class test (Written Exam)		25	Final Exam (Theory)	50
Project Evaluation/Presentation/Field Assignment		15		
Assignment/case studies/Report Writing		10		
Total		50	Total	50
REFERENCES				
1	Babu, V, R and Sundarson,S, (2018), ` Home furnishing `, woodhead Publishing India, New Delhi			
2.	Deulkar,S.,(2015) `Performance of Home textiles` , Woodhead Publishing India, New Delhi.			
3.	Kapoor,H and Arora,A., (2012), `Home textiles`, Published by authors, India.			
4.	Karthik, T and Gopalakrishnan, D.(2020),`Home textiles`, Daya publishing house, New Delhi			
5.	Kashyap,R.,(2015), `Sustainable fibers and Fabrics used in Home textiles`, International Journal for Scientific Research & Development,3 (9):901-903			
6.	Hess K.P.,(1966), `Textile fibre and their uses`, Oxford and IBMP publishing Company			

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) (REGULAR) Third Year – Semester 5 (Level 5.5)											
Year	III	FUNDAMENTALS OF DESIGN (Minor 5)			Credits /Hours per week Hours per semester		4(4+0) Credits / 04 hours per week (Theory:60 hours) Total: 60 hours per semester				
Semester	I	Year of Introduction: 2023-24 Year of revision:			Maximum Marks / Minimum Marks		100 Marks / 36 Marks				
Mode of Transaction		Lecture									
Course Outcome (CO) CO1 Understand what design is and why it is important. CO2 Learn why having good taste in design matters and how it affects the way things look. CO3 Explore the different jobs designers have, especially in textile and fashion design. CO4 Recognize the challenges and opportunities that come when designing and with being a designer today. CO5 Acquire knowledge of the fundamental elements and principles of design and their role in conveying artistic expression. CO6 Develop an understanding of the significance of elements and principles in design and their effective utilization in creating visually compelling compositions.											
Unit No.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
I	Understanding Design, Designing and Designer 1. Design – its meaning and importance a. Division of design – Art form and applied form. b. Qualities and aims in design – Beauty, Functionalism, Expressiveness c. Types of design: Structural and Surface design 2. Importance of good taste in design 3. Designer at work – Textile designer and Fashion designer 4. Challenges and opportunities – for design and designers.			12	20	1,2,3	1,2,3,4	6	Entrepreneurship (Ent) Skill Development (SD)	Global	Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE) -
II	Elements and Principles of design 1. Elements of design : Point, Line, Plane, Volume, Space, Shape, Form, Light, Colour, Texture, Pattern 2. Principles of design : Balance, Proportion and scale, Rhythm, Emphasis, Harmony, Variety, Subordination, Contrast, Discord, Law of area			12	20	1,2	5	6	Entrepreneurship (Ent) Skill Development (SD)	Global	Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

III	Aspects of Colour and Pattern in design 1. Colour an important element of design. a. Dimensions and modifications of color b. Colour mixing and color systems. c. Colour harmony and color schemes. d. Colour in different media. e. Principles of introducing color. f. Colour in fabric, texture and light 2. Surface pattern and pattern groups a. Principles for creating a pattern b. Preparing a layout	12	20	3,4	3	6	Entrepreneurship (Ent) Skill Development (SD)	Global	Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
IV	Understanding Line, Colour and its application 1. Line and its expressiveness: Line, its types and composition, Effect of lines to create rhythm and optical illusions. 2. Colour expression: Colour wheel, Colour schemes, Colour vocabulary, Colour rhythm	12	20	4,5	4	6	Entrepreneurship (Ent) Skill Development (SD)	Global	Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
V	Other elements, principles of design and its application 1. Shapes, Textures and Patterns a. Basic shapes and Silhouette shapes b. Textures: natural and created c. Repeat patterns: all over, spot and striped d. Design: structural and surface 2. Relationship of Scale and proportion 3. Balance 4. Emphasis 5. Rhythm in styling	12	20	5,6	5	6	Entrepreneurship (Ent) Skill Development (SD)	Global	Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)

STED EVALUATION			
CEE (50% IA)		SEE (50% UA)	
Evaluation Type	Marks	Evaluation Type	Marks
Class test (Written exam)	25	Final Theory (Written exam)	50
Home Assignment/ Article Writing	15		
Objective test/ Quiz	10		

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

Total		50	Total		50
REFERENCES					
1.	Crane D. (2000), 'Fashion and its Social Agendas', University of Chicago, USA				
2.	David A. and Stephen P. (2007), 'Design Basics', Edition 7th, Cengage Learning, New York.				
3.	Ellinwood J. (2010), 'Fashion By Design', Fairchild Publications.				
4.	English B. (2018), 'A Cultural History of Fashion in the 20th and 21st Centuries: From Catwalk to Sidewalk', Edition 2nd, Bloomsbury Visual Arts.				
5.	Ghosh S. (2018), 'Design Movement in Tagore's Santiniketan: Alpana – An Experiment in Aestheticism', Edition 1st, Niyogi Books Pvt. Ltd, India.				
6.	Goldstein H. and Goldstein V., (1929), Art in everyday life, The Macmillan Company, https://archive.org/details/artineverydaylif008800mbp/page/54/mode/2up?view=theater				
7.	James B. (2012), 'Design Fundamentals for New Media', Edition 2nd, Illustrated Cengage Learning, New York.				
8.	James K. (2020), 'Ornamental Design: An Image Archive and Drawing Reference Book for Artists, Designers and Craftsmen', Avenue House Press Pty Ltd, India.				
9.	Kaiser S. (2021), 'Fashion and Cultural Studies', Edition 2nd, Bloomsbury Visual Arts.				
10.	Parchure J.W., (2009) Fundamentals of Designing for Textiles and Other End Uses, Woodhead Publishing India Pvt. Ltd.				
11.	Sorger R. and Udale J., (2017) The Fundamentals of Fashion Design, Bloomsbury Visual Arts; 3rd edition: India				

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) (REGULAR) Third Year – Semester 5 (Level 5.5)											
Year	III	DESIGN THINKING AND PRODUCT DEVELOPMENT (SEC 5)			Credits /Hours per week Hours per semester			2(0+2) Credits / 04 hours per week (Practical: 60 hours) Total: 60 hours			
Semester	I	Year of Introduction: 2023-24 Year of revision:			Maximum Marks / Minimum Marks			50 Marks / 18 Marks			
Mode of Transaction		Practical									
Course outcome (CO) CO1: Understand market research and trend analysis CO2: Generate creative products to meet market needs using New Product Development process CO3: Develop market strategies for launching new products in the market											
Unit No.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance toLocal(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
PRACTICAL											
I.	Market research 1. Understanding consumer needs 2. Trend forecasting 3. Market survey			12	20	1,2	1	7	Employability Entrepreneurship	National Global	Environment Sustainability Professional Ethics
II.	Exploring product development process 1. Idea generation 2. Idea screening 3. Concept development 4. Prototype development 5. Testing			24	40	2,3	1,2,3	7, 8	Employability Entrepreneurship Skill Development	National Global	Environment Sustainability Professional Ethics
III.	Commercialization of product 1. Final product construction 2. Development of marketing strategies 3. Branding, packaging, pricing 4. Evaluation through displays/exhibitions			24	40	3,4,5,6	2,3	7, 8	Employability Entrepreneurship Skill Development	National Global	Environment Sustainability Professional Ethics
SUGGESTED EVALUATION											
CEE (50% IA)				SEE (50% UA)							

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

Evaluation Type		Marks	Evaluation Type		Marks
Practical Class Test		10	Practical Semester Exam		25
Practical Evaluations		15			
Total		25	Total		25
REFERENCES					
1.	Annacchino, M. (2003). New Product Development: from Initial Idea to Product Management, Butterworth-Heinemann Ltd				
2.	Carr, H. & Pomeroy, J. (1993). Fashion Design and Product Development, Wiley-Blackwell publications				
3.	Crawford, C. M., & Di Benedetto, A. (2020). New Products Management 11 th edition, McGraw Hill Publications				
4.	Karol, R. & Nelson, B. (2011). New Product Development For Dummies, Wiley Publications				
5.	Wallaert, M. (2019). Start at the End: How to Build Products That Create Change, Portfolio publications				
6.	https://egyankosh.ac.in/bitstream/123456789/14836/1/Unit-6.pdf				
7.	https://www.wgsn.com/en/products/fashion				

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) - REGULAR Third Year – Semester 5 (Level 5.5)											
Year	III	DRAPING AND COSTUME DESIGNING (Major 14)			Credits / Hours per week Hours per semester		4(0+4) Credits / 08 hours per week (Practical: 120 hours) Total: 120 hours per Semester				
Semester	II	Year of Introduction: 2023-24 Year of revision:			Maximum Marks / Minimum Marks		100 Marks / 36 Marks				
Mode of Transaction		Practical and Tutorials, Craft Exhibitions, Exposure visits									
Course outcome (CO) CO1: Understands garment designing through draping and visualize the concept of 3D pattern development. CO2: Budding designer to drape and construct any original costume with care and confidence. CO3: Recognition of qualities in terms of well-designed dress and to discern the superiority a design. CO4: Explore and learn to handle fabrics suitable for garment styles. CO5: Development of skills and understanding to correct fit problems. CO6: Application of principles of design and their contribution to exquisiteness and distinction of costume.											
Unit No.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
PRACTICAL											
I.	Introduction to Draping 1. Overview of draping and its significance in fashion design. 2. Preparation of muslin for draping 3. Basic equipment preparation 4. Development of Basic Pattern 5. Basic Bodice 6. Basic Skirt			18	15	1,2	1	9	Skill Development	Local(L)	Environment Sustainability, Professional Ethics
II.	Designing of the Bodice 1. Exploring Dart Variations 2. Princess Lines 3. Necklines including cowl neckline 4. Types of plackets			30	25	2,3,4	2,3	9	Employability, Entrepreneurship, Skill Development	National(N)/ Regional(R)/ Global(G)	Environment Sustainability Professional Ethics
III.	Design variations in bodice 1. Designs with Added fullness: To Bodice and Skirt 2. The midriff 3. Yokes			30	25	3,4	2,3,4	9	Employability, Entrepreneurship, Skill Development	National(N)/ Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

IV.	Draping collars, cuffs, and waistbands	30	25	3,4	2,3,4	9	Employability, Entrepreneurship, Skill Development	National(N)/ Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
V.	Final Project 1. Create a final draping project, applying techniques learned throughout the course 2. Project presentation and feedback	12	10	4,5,6	4,5	9	Employability, Entrepreneurship, Skill Development	National(N)/ Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
SUGGESTED EVALUATION									
CEE (50% IA)					SEE (50% UA)				
Evaluation Type			Marks	Evaluation Type					Marks
Class test			20	Final Practical Exam					50
Project work			10						
Lab Work			20						
Total			50	Total					50
REFERENCES									
1	Connie Amaden-Crawford, The Art of Fashion Draping, 5 Th edition, Fairchild Books, 2018								
2	Danilo A., Fashion Moulage Technique: A Step by Step Draping Course Promo press Publication, 2019								
3	Hilda J. and Nurie R., Draping for Fashion Design, Prentice Hall, 1973								
4	Karolyn K., Draping: The Complete Course, Laurence King Publishing, 2 nd Edition, 2020								
5	Nelle W.L. Precision Draping: A Simple Method for Developing Designing Talent, Literary Licensing, LLC, 2012								

Bloom's Taxonomy (BT) Levels:

1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) (REGULAR) Third Year – Level 5.5										
Year	III	TEXTILE TESTING, FINISHING AND QUALITY CONTROL	Credits / Hours per semester				4 (2+2) Credits / 6 hours per week (Theory: 30 hours, Practical: 60 hours) Total: 90 Hours/Semester			
Semester	II	Year of Introduction: 2023-2024 Year of Syllabus Revision: -	Maximum Marks / Minimum Marks				100 Marks/ 36 Marks			
Mode of Transaction		Lecture and Practical								
Course Outcome (CO) CO 1: Develop fundamental knowledge of the principles and techniques involved in textile testing, finishing processes, and quality assessment to ensure textile product standards. CO 2: Gained hands on exposure to testing methods for fibre, yarn, fabric, and finished textiles. CO 3: Understand the chemistry and mechanism of the finishes used for external application on textiles. CO 4: Understand and able to apply theoretical knowledge and analyze the relationship between the data and its implications to the fabric properties, appearance, handle and function. CO 5: Establish the ability to correlate fabric properties with their intended end uses, enabling informed decision-making in product development, quality control, and application processes.										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I.	Introduction to Textile Testing, finishing and Quality control 1. Important and scope of textile testing 2. Sampling methods and preparation for textile testing. 3. Overview and objectives of textile finishing. 4. Importance and scope of quality control in textiles.		3	5	1,2	1	10	Employability	Local(L)/ National (N) /Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
II	Fiber, Yarn and Fabric Testing 1. Moisture content and regain 2. Fiber testing: a. Fibre fineness b. Fibre length 3. Yarn testing: a. Yarn diameter's its measurements and conversions from one system to another b. Twist, twist factor, type of twist and fabric properties affect by twist 4. Fabric Testing a. Thickness, weight, shrinkage and crimp. b. Stiffness, Tensile and tear strength testing. c. Abrasion resistance, pilling resistance, and crease recovery.		9	15	1,2,3	1,2	10	Employability	Local(L)/ National (N) /Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

	d. Colorfastness tests: Washing, light, and rubbing. e. Air permeability and drape testing.								
III	Textile Finishing 1. Finishing Process 2. Classification of finishes: a. Mechanical finishes: Calendaring, sanforizing, shearing, etc. b. Chemical finishes: Softening, stiffening, water repellency, flame retardancy, etc. c. Special Purpose Finishes d. Enzymatic and eco-friendly finishes.	9	15	1,2,3	1,3	10	Employability	Local(L)/ National (N) /Regional®/ Global(G)	Environment Sustainability, Professional Ethics
IV.	Quality Control and Standards 1. Standards for testing and quality assurance: BIS, ISO, AATCC, and ASTM. 2. Quality inspection: a. Inspection methods for raw materials, in-process, and finished goods b. Defects in textiles: Causes, identification, and corrective measures c. 4-point and 10-point fabric grading systems. d. Emerging trends: Automation and AI in quality control 3. Legal and Environmental Concerns	9	15	1,2,3	1,3	10,11	Employability	Local(L)/ National (N) /Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
PRACTICAL									
V.	1. Fiber Testing: Measuring fineness and length. 2. Yarn Testing: Yarn count and twist 3. Fabric Testing: Shrinkage, Thickness, weight, crimp, stiffness, tearing strength, tensile strength, abrasion and pilling and air permeability. 4. Colorfastness: Washing and rubbing tests. 5. Finishing Techniques: Application of finishes (e.g., softening or water-repellent). 6. Finishing Analysis: Assessing the effectiveness of finishing treatments	60	50	3,4,5	2	11	Employability Skill Development	Local(L)/ National (N) /Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
SUGGESTED EVALUATION									
CEE (50% IA)					SEE (50% UA)				
Evaluation Type				Marks	Evaluation Type				Marks
Class test				25	Theory (Written Exam)				50
Lab Assessment				25					
Total				50	Total				50
REFERENCES									
1.	American Association of Textile Chemists and Colorists (AATCC) & American Society for Testing and Materials (ASTM). (Latest ed.). Standards Manuals.								
2.	Booth, J. E. (1984). Principles of Textile Testing. Butterworths.								
3.	Choudhury, A. K. R. (2011). Textile Preparation and Dyeing. Society of Dyers and Colourists.								
4.	Grover, E. B. (2011). Handbook of textile testing and quality control. Wiley India Pvt Ltd. ISBN-13: 978-8126531752.								
5.	Kadolph, S. J., & Langford, A. L. (2002). Textiles (8th ed.). Merrill, an imprint of Prentice Hall.								

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

6.	Raul, J. (2005). Textile testing. APH Publishing Corporation.
7.	Skinkle, J. H. (1949). Textile Testing: Physical, Chemical, and Microscopical. Chemical Publishing Co. Inc.
8.	Wynne, A. (1997). Textiles (Motivate Series). MacMillan Education LTD.

Bloom’s Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) (REGULAR) Third Year – Semester 6 (Level 5.5)											
Year	III	BASICS OF RESEARCH (Major 16)			Credits / Hours per week Hours per semester			4 (4+0) Credits / 4 hours per week (Theory : 60 hours) Total: 60 Hours/Semester			
Semester	II	Year of Introduction: 2023-2024 Year of Syllabus Revision: -			Maximum Marks / Minimum Marks			100 Marks/ 36 Marks			
Mode of Transaction		Lecture and tutorials									
Course Outcome (CO) CO1: Understand and articulate the fundamental concepts, types and importance of scientific research. CO2: Formulate research questions , hypothesis, objectives and research design CO3: Apply appropriate research design and methodologies for specific research problem. CO4: Collect, analyse and interpret the data using relevant tools and techniques. CO5: Prepare a research proposal scientifically and present it.											
Unit No.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY											
I.	Introduction 1. Scientific research, characteristics, types and methods of scientific research. 2. Concepts, constructs, variable and hypothesis			6	10	1,2	1,2	12	Employability	Local, National, Regional, Global	Human Values, Sustainability, Professional Ethics, Gender
II	Designing research 1. Problem formation and developing research question 2. Research design 3. Sampling			9	15	1,2	1,2	12	Employability	Local, National, Regional, Global	Human Values, Sustainability, Professional Ethics, Gender
III	Techniques of data collection 1. Questionnaire and interview schedule 2. Interview 3. Case study 4. Content Analysis 5. Projective techniques			12	20	2,3	3	12	Employability	Local, National, Regional, Global	Human Values, Sustainability, Professional Ethics, Gender

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

IV.	Data processing, analysis and statistical techniques 1. Data processing, tabulation, diagrammatic representation and analysis 2. Measurement of scaling techniques 3. Measurement of central tendency 4. Measures of dispersion 5. Measures of association	18	30	3,4	4	12	Employability	Local, National, Regional, Global	Human Values, Sustainability, Professional Ethics, Gender
V.	Preparing research proposal 1. Writing a research proposal 2. Preparing a report 3. Referencing 4. Plagiarism and ethical consideration	15	25	5,6	5	12,13	Employability	Local, National, Regional, Global	Human Values, Sustainability, Professional Ethics, Gender
SUGGESTED EVALUATION									
CCE (50 % IA)					SEE (50 % UA)				
Evaluation Type				Marks	Evaluation Type				Marks
Class test				30	Theory Written Exam				50
Proposal presentation				10					
Report writing				10					
Total				50	Total				50
REFERENCES									
1.	Bryman A., (2016) Social Research Methods, 4 th edition, International Edition, Oxford University Press: New York								
2.	Bandarkar P.L. and Wilkins T.S. (2000), Methodology and Techniques of Social Research, Himalaya Publishing House: Mumbai								
3.	Bell J. and Waters, S. (2018), Doing Your Research Project: A guide for first-Time Researchers, McGraw-Hill Education: UK								
4.	Creswell J.W. (2018), Research Design: Qualitative, Quantitative and Mixed Methods Approaches, SAGE Publications: California								
5.	Dooley D. (1995), Strategies for interpreting Qualitative Data, SAGE Publications: California								
6.	Kothari C. R. (2004), Research Methodology: Methods and Techniques. New Age International: New Delhi								
7.	Uwe F., (2017), Introducing Research Methodology- A beginner's guide to doing a research project, 2 nd edition, SAGE/TEXTS Publications: New Delhi.								
8.	Online Databases: JSTOR, SCOPUS, SCIENCE DIRECT, RESEARCH GATE								
9.	Digital Tools: Zotero, Mendley, SPSS and Canva								

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) - REGULAR Third Year – Semester 5 (Level 5.5)										
Year	III	FASHION MAKEOVER (Minor 6)	Credits / Hours per week Hours per semester		4(4+0) Credits / 04 hours per week (Theory: 60 hours) Total: 60 hours					
Semester	II	Year of Introduction: 2023 - 24 Year of revision:	Maximum Marks / Minimum Marks		100 Marks / 36 Marks					
Mode of Transaction		Lecture and Tutorial, Demonstration, Exposure visit								
Course Outcome (CO) CO1: Analyze personal features, Body shapes and curate individualized style solutions. CO2: Planning and executing complete fashion makeovers integrating styling, grooming, and makeup. CO3: Application of knowledge about trends, body types and cultural esthetics in makeover projects. CO4: Utilization of sustainable practices in styling and wardrobe curation. CO5: understanding of makeover projects professionally for portfolio development										
Unit No.	Topic		Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY										
I.	Physical traits and personality 1. Identification of different body types a. Body Proportion b. Figure type and Problems c. Personality d. Facial Features 2. Styling Techniques to enhance body proportion		10	15	1,2	1,2	14	Skill Development	Global	Professional Ethics
II.	Foundation of Fashion Makeover 1. Significance of different styles – Historical, contemporary overview of global trends in personal styling.		12	25	1,2	3	14	Employability	Global	Human Values

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

III.	Colour Theory and Personal branding - Understanding the psychology of colour Selecting a colour palette based on skin tone, hair colour and personality. - Personal Style Expression - Etiquette and personal grooming. - Makeup techniques and hairstyling. (every day look and event specific)	15	25	1,2,3	1,2,3	14	Skill Development Entrepreneurship	Global	Professional Ethics
IV.	Wardrobe Planning and Accessorizing - Principles of wardrobe curation - Capsule wardrobe concepts - Accessorizing: Enhancing looks with Jewelry, bags and shoes - Makeup techniques and hairstyling.	13	20	3,4	2	14	Skill Development Entrepreneurship	Global	Environment Sustainability
V.	Sustainable Practices - Incorporating sustainability into wardrobe choices and makeovers - Document makeover projects professionally and create Individual portfolio. - Ethical considerations in Fashion and beauty.	10	15	3,4	4,5	14	Entrepreneurship	Global	Environment Sustainability

SUGGESTED EVALUATION

CEE (50% IA)		SEE (50% UA)	
Evaluation Type	Marks	Evaluation Type	Marks
Class test (Written exam)	30	Final Test (Written exam)	50
Quiz/Assignment	10		
Individual portfolio making	10		
Total	50	Total	50

REFERENCES

1.	Sing,D (1993), 'Adaptive significance of female physical attractiveness : Role of waist – to – waist –to hip ratio.' journal of personality and social psychology
2.	Funder,D.C. (2001), ' The personality puzzle (2 nd ed.)'. New York : W.W. Norton
3.	Phares,J.E.(1991), ' Introduction to Personality (3 rd ed.)'. New York : harper Collins.
4.	Woodward and Sophiele (2007), ' Why women wear what they wear', new York : BERG Publishers.
5.	Patel, R (2019), 'Mastering Image styling : A Comprehensive Guide for Designers and Photographer', san Francisco, CA: Publisher
6.	Kim,S.(2017), 'Image styling Secrets : Tips and Tricks for creating stunning Visuals'. Chicago, IL
7.	Thomas Werner (2019), 'The fashion Image' (1 st ed.), Blooms bury publishers.
8.	David zyla, (2010), 'The color of Style', Dutton: plum publishers.
9.	Bobbi Brown, (2016), ' Makeup Manual',Kitsun books Publisher

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5.Evaluation 6. Creation

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (REGULAR) Third Year – semester 6 (Level 5.5)											
Year	III	SOCIO-PSYCHOLOGICAL ASPECTS OF CLOTHING			Credits / Hours per semester			2 (2+0) Credits / 2 hours per week (Theory: 30 hours) Total: 30 Hours/Semester			
Semester	II	Year of Introduction: 2023-2024 Year of Syllabus Revision:			Maximum Marks / Minimum Marks			50 Marks/ 18 Marks			
Mode of Transaction		Lecture and Tutorial									
Course Outcome (CO) CO1: Develop an understanding of social and psychological aspects of clothing. CO2: Study the psychological effects of clothing on the individual in various social situations. CO3: Explore the relationship between clothing and consumer behaviour											
Unit No.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY											
I.	Origin of Clothing 1. Theories of Clothing: Theory of protection, theory of modesty, theory of immodesty, protections, theory of adornment and combined need theory 2. Clothing and first impressions 3. Clothing Symbolism			9	30	1,2,3	1,2	15	Skill Development	Local(L)/ National (N) /Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
II	Clothing Psychology and Behaviour 3. Individual Values, interests and Attitudes related to clothing 4. Clothing and the age of the wearer a. Adolescents b. Adult and Elderly 5. Psychological impact of Colour 6. Effect of Clothing on Behaviour and perception c. Physical Comfort and Well being d. Mood and Emotional State e. Personality and self-concept f. Social Conformity and Individuality			12	40	1,2,3,4	1,2,3	15	Skill Development	Local(L)/ National (N) /Regional(R)/ Global(G)	Environment Sustainability, Professional Ethics
III.	Clothing and Society 1. Influence of religion and culture on clothing. 2. Impact of occupation on clothing choices.			9	30	1,2,3,4	1,2,3	15	Skill Development	Local(L)/ National (N) /Regional(R)/	Environment Sustainability, Professional Ethics

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

	3. Role of clothing in ceremonies and occasion. 4. Clothing and class distinctions. 5. Society’s influence on Clothing choices a. Media and Fashion trends b. Peer Pressure and Social Expectations 6. Clothing Practices and the effect on consumer behaviour a. Consumer motivation b. Satisfaction and Identity formation through clothing							Global(G)	
SUGGESTED EVALUATION									
CEE (50% IA)					SEE (50% UA)				
Evaluation Type				Marks	Evaluation Type				Marks
Class test				15	Theory (Written Exam)				25
Home Assignment				10					
Total				25	Total				25
REFERENCES									
1	Entwistle, J. (2000). The Fashioned Body: Fashion, Dress and Modern Social Theory. Polity Press.								
2.	Flugel J.L, (1940).The Psychology of Clothes, Hogarth Press Ltd., London								
3.	Horn, M. J. (1975). The Second Skin: An Interdisciplinary Study of Clothing. Houghton Mifflin., Boston, USA								
4.	Kaiser, S. B. (1997). The Social Psychology of Clothing: Symbolic Appearances in Context. Fairchild Publications								
5.	Kimball, Young. (1925). Social psychology. In H. E. Barnes (Ed.), The history and prospects of the social sciences (pp. 156–209).								
6.	Marshall, Suzanne G., Jackson, Hazel O., et al. (2000). Individuality in Clothing Selection and Personal Appearance. Prentice Hall, New Jersey, USA								
7.	Roach-Higgins, M. E., Eicher, J. B., & Johnson, K. K. P. (1995). Dress and Identity. Fairchild Books.								
8.	Roach, Mary Ellen, & Ficher Bubloz, Joan. (1965). Dress, Adornment, and the Social Order. John Wiley & Sons, New York.								
9.	Ryan, Mary Shaw. (1966). Clothing: A Study in Human Behavior. Holt, Rinehart and Winston, Inc., New York.								
10.	Solomon, M. R. (2014). Consumer Behavior: Buying, Having, and Being. Pearson.								

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) (REGULAR) Third Year – Semester 6 (Level 5.5)												
Year	III	ORIENTATION TO THE CLOTHING INDUSTRY (Internship)				Credits/Hours per week Hours per semester		4 (0+4) / 8 hours per week (Practical: 120 hours)/ Total: 120 hours/semester				
Semester	II	Year of Introduction: 2023-24 Year of revision:				Maximum Marks/Minimum Marks		100 Marks/36 Marks				
Mode of Transaction		Experiential Learning, hands-on training, Internship										
Course Outcome (CO) CO1: Understand the structure and dynamics of the clothing industry. CO2: Identify key roles of the manufacturers, retailers, and consumers in the industry. CO3: Analyze the processes involved in clothing design, production, and distribution. CO4: Evaluate the impact of sustainability and ethical considerations in the clothing industry. CO5: Develop professional skills necessary for a successful career in the industry. CO6: Exposure to build clothing enterprise.												
Unit no.	Topic				Contact Hours	Weightage (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender (G), Environment Sustainability(ES). Human Values (HV), Professional Ethics (PE)
I	Placement for duration of 30 days in the Clothing industry / apparel accessory house. The following points to be covered: 1. Introduction to the clothing industry - Design, manufacturing, marketing, and retail - Current trends and challenges in the clothing industry 2. Clothing design and development - Design process from concept to creation - Technologies used in manufacturing 3. Production Processes - Garment construction techniques and processes - Quality control and production management 4. Marketing and Branding - Clothing marketing: target markets, branding and consumer behavior - Retail strategies and brand management in clothing - E-commerce and digital marketing in the clothing industry				60	50	2,4,5	1, 2, 3, 4, 5	16	Emp, Ent, SD	Local(L)/ National(N)/ Regional(R)/ Global(G)	Environment Sustainability (ES). Human Values (HV), Professional Ethics (PE)

Enclosure 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l PROPOSED TY Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

To be passed in CT Board of Studies under the Faculty of Family and Community Sciences held on Tuesday 31/12/2024 at 4:30 PM in the virtual mode AND implemented from 2025-26 AY

II	5. Sustainability and Ethical Fashion									
	Start up a Clothing Business - Conduct market research - Create a business plan - Develop a brand identity-Logo., Color palette, typography, visual aesthetics - Selection of product and Product design - Targeting customers - Social media marketing		60	50	3,6	6	16	Emp, Ent, SD	Local(L)/ National(N)/ Regional(R)/ Global(G)	Environment Sustainability (ES). Human Values (HV), Professional Ethics (PE)
	SUGGESTED EVALUATION									
	CEE (50% IA)			SEE (50% UA)						
	Evaluation Type		Marks	Evaluation Type						Marks
	Submission of weekly report		40	Presentation of Proposal of Clothing Entrepreneurship						30
	Attendance		10	Viva Exam						20
Total		50	Total						50	
REFERENCES										
1	Fletcher K. ,Sustainable Fashion and Textiles: Design Journeys, Routledge Publications, 2008									
2	Matthew M.C. A. , Mohammad B. R. , upgrading the Global Garment Industry: Internationalization, Capabilities and Sustainability (New Perspectives on the Modern Corporation series), Edward Elgar Publishing Ltd., 2021									
3	Nukasani Y. Clothing Brand Playbook: How to Start and Grow Your Own Clothing Brand: The Ultimate Step-by-Step Guide On Idea & Planning, Garment Blanks, Design, Manufacturing and More.. Kindle Edition, 4 August 2020									
4	Ugbogonogo S., Understanding The Practice Of Health, Safety And Environment In The Clothing Industry (A Collection Of Books On How To Solve That Problem) , Kindle Edition, 8 September 2023									
5	White A. W. Advertising Design and Typography, Allworth Press, 2015									

Bloom’s Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, BARODA

**Programme: B.Sc. (Family and Community Sciences)
CLOTHING AND TEXTILES (CLOTHING AND TEXTILES WITH RESEARCH)
Fourth Year Course Syllabus with PSO**

Programme specific objectives (PSO)

- PSO1:** Demonstrate expertise in research design, data analysis, and scholarly communication by integrating advanced methodologies, computational tools, and ethical practices to solve real-world problems and contribute to academic and applied research.
- PSO2:** Develop an in-depth understanding of diverse textile structures and materials, including technical and smart textiles, and their construction principles, performance, and contemporary applications.
- PSO3:** Apply digital design tools and traditional techniques in surface ornamentation, weave simulation, and sample making to foster innovation, cultural preservation, and industry-ready textile solutions.
- PSO4:** Demonstrate proficiency in advanced draping, pattern making, and garment construction while effectively conceptualizing and communicating design ideas through portfolios. Apply technical skills in material sourcing, specification development, and fabric optimization, exhibiting professionalism and creativity in fashion presentation and promotion.
- PSO5:** Develop a thorough understanding of fabric types, care requirements, stain removal, damage prevention, and sustainable practices by evaluating fabric properties, selecting appropriate care products and techniques, and promoting eco-friendly and responsible textile maintenance.
- PSO6:** Research Competence: Demonstrate the ability to design, conduct, and present contextually relevant, ethically sound, and methodologically robust research in the field of design/textiles, using appropriate tools, critical thinking, and academic communication skills.
- PSO7:** To equip students with the skills to analyse trends and sustainability practices, and apply advanced technologies for innovative and responsible solutions in the clothing and textile industry.
- PSO8:** Apply scientific and sustainable principles of colour and dyeing to evaluate perception, manage colour quality using measurement tools, and develop eco-conscious colour strategies for diverse textile applications including fashion, branding, and retail.
- PSO9:** Apply Clothing and Textile knowledge through research, skill-building activities, and effective communication in community and field settings.
- PSO10:** Apply colour theory, sustainability, and forecasting to resolve textile colouration issues and develop effective design, branding, and merchandising strategies.
- PSO11:** Research Competence: Demonstrate the ability to design, conduct, and present contextually relevant, ethically sound, and methodologically robust research in the field of design/textiles, using appropriate tools, critical thinking, and academic communication skills.

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं जितं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2024-25
---	--	----------------------	----------------

COURSE SYLLABUS FOR FOURTH YEAR B.Sc. (Family and Community Sciences)
CLOTHING AND TEXTILES (CLOTHING AND TEXTILES) WITH RESEARCH

Year (level)	Semester	Course Name	Credit	Course type
IV (6.0)	7	Advanced Research, Data Science, Computer Applications and Academic Writing	4(2+2)	Major 17
		Fabric Design and Manufacture: Advanced Structures, Smart Textiles and CAD Applications	4(2+2)	Major 18
		Textile Chemistry	4(3+1)	Major 19
		1 Minor from a basket of 6 courses Essentials of Fabric Care	4(4+0)	Minor 7
		Dissertation I	6(0+6)	Research Project 1
		TOTAL	22(11+11)	
	8	Recent Trends and Technologies in Clothing and Textiles	4(3+1)	Major 20
		Colour Science and its Applications	4(2+2)	Major 21
		Advanced Draping and Pattern Making for Design Collections	4(0+4)	Major 22
		1 Minor from a basket of 6 courses Indian Costumes	4(4+0)	Minor 8
		Dissertation II	6(0+6)	Research Project 2
		TOTAL	22 (9+13)	

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH))												
Year	IV	ADVANCED RESEARCH, DATA SCIENCE, COMPUTER APPLICATIONS, AND ACADEMIC WRITING (Major 17)				Credits/Hours per week Hours per semester		4 (2+2) / 6 hours per week (Theory: 30 hours Practical:60 hours) Total: 90 hours/semester				
Semester	I	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 /100 Marks				
Mode of Transaction		Lecture and Practical										
Course Outcome (CO) CO1: Develop advanced understanding of research paradigms, mixed methods, and ethical frameworks. CO2: Distinguish between parametric and non-parametric tests and apply them to relevant data sets. CO3: Apply computational statistics and choose appropriate data analysis techniques using software tools. CO4: Perform statistical analysis using SPSS, R, and Excel; visualize data effectively. CO5: Write academically, using discipline-specific styles and referencing systems. CO6: Prepare a comprehensive research proposal/report with originality and integrity.												
Unit no.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES), Human Values (HV), Professional Ethics (PE)
THEORY												
I	Advance Research Methodology 1. Meaning, objectives and importance of research 2. Mixed methods research 3. Types of research designs: Fundamental, Applied, Action, Descriptive, Analytical, experimental and longitudinal 4. Validity and reliability in research 5. Triangulation and data integration 6. Research ethics in digital age				06	07	2,3	1	1	Skill Development (Research orientation, critical thinking)	Global	Professional Ethics

II	Introduction to Computational Statistics and Data Science Concepts - Types of data: structured vs. unstructured - Parametric tests: t-test, F-test, ANOVA, Pearson's correlation, Regression, factor analysis - Non-parametric tests: Chi-square, Mann-Whitney U, Kruskal-Wallis, Wilcoxon Signed-Rank, Spearman's/Kendall's Correlation, Friedman Test - Introduction to machine learning basics (clustering, prediction) - Choosing the right test based on data type and sample size - Importance of data ethics and reproducibility	12	13	3,4	2	1	Skill Development (Data literacy, analytical skills)	Global	Professional Ethics
III	Academic Writing: Types, Ethics, Process, Structure and Format - Types of Articles - Ethical and Legal Standards in Publishing - Online and Off-line Resources for Review and Publishing - Planning the writing process - Getting started - Use outline as starting device and Drafting - Standard Structure and Content of Report - Preliminary Information - Title, Abstract, Introduction, Review of Literature, Methodology, Results and discussion, Summary and Conclusion. - Bibliography and footnotes.- crediting sources - Appendices and Annexure – Use and guidelines - General Guidelines for writing clearly and concisely - Organization and writing style - Reducing bias - Grammar and Usage. - Proof reading - reflecting, re-reading and checking	12	14	4,5,6	5	1	Skill Development (Academic Writing and Communication)	Global	Professional Ethics

	7. Page Layout and Text format 8. Understanding Title, headings, sub-headings and body 9. Forms of data presentation - Diagrammatic and Graphic/ Figures - Graphs - Tables - Plates / Photographs								
PRACTICAL									
IV	Software Tools for Data Analysis - Introduction to SPSS, R, and Excel for statistical analysis - Data cleaning, coding, entry - Descriptive and inferential statistics - Data visualization using charts, graphs, Tables, dashboards, info-graphics - Introduction to Google Forms - NVivo / R for Content and Thematic Analysis	30	33	3	3,4	1	Skill Development (Digital competency, software use, problem-solving)	Global	Professional Ethics
V	Computer Application in Academic Writing - Literature review techniques and Online Tools for Data Collection - Citation and referencing tools (Zotero, Mendeley) - Avoiding plagiarism and using plagiarism check tools (Grammarly, Turnitin) - Formatting Text – Page Layout, Editing, Spacing, Inserting Header / Footer, Page numbering, Page /Section breaks, Changing Page margins and Orientation - Formatting Tables and Photographs - Creating charts, hyperlinks, macros, bookmarks, mail merge and table of contents - Proofing, comments and tracking changes for reviewing - Automatic chapter and subsection numbering	20	22	5,6	5	1	Skill Development (Digital Literacy, Academic Integrity and Ethical Writing, Document Design and Technical Editing, ICT Skills for Research and Publication)	Global	Professional Ethics

	9. Document and PC protection 10. Formatting article / chapters using learnt concepts								
VI	Formulation of Research Proposal and Scholarly Presentation 1. Planning and presenting research ideas a. Identifying research gaps b. Criteria for selecting a research problem c. Steps in defining the research problem d. Developing objectives and research questions e. Defining population and Sample f. Types and Techniques of Data collection g. Hypothesis formulation - Variables: Independent, dependent, control, extraneous 2. Structuring proposals for grants or academic submissions (with Hypothesis) 3. Poster presentation and info-graphic creation 4. Undergo Peer review process 5. Ethical publishing practices and avoidance of plagiarism	10	11	5,6	6	1	Skill Development (Professional Communication and Presentation Skills, scholarly integrity, project management)	Global	Professional Ethics
SUGGESTED EVALUATION									
CCE (50% IA)		MARKS	SEE (50% UA)					MARKS	
Class test (Written exam)		15	Final Test (Theory + Application)					50	
Practical Software assignments		10							
Poster or Paper presentation/ Report writing / Field assignment/ Case study		15							
Academic writing task(s)		10							
Total		50	Total					50	
REFERENCES									
1.	Bell, J., & Waters, S. (2018). Doing your research project: A guide for first-time researchers. Open University Press.								
2.	Bordens, K., & Abbott, B. B. (2018). Research Design and Methods: A Process Approach (10th ed.). McGraw-Hill.								
3.	Creswell, J. W., & Creswell, J. D. (2018). Research Design: Qualitative, Quantitative, and Mixed Methods Approaches (5th ed.). Sage Publications.								

4.	Field, A. (2017). Discovering statistics using IBM SPSS statistics (5th ed.). Sage Publishers.
5.	Kothari, C. R., & Garg, G. (2019). Research methodology: Methods and techniques (4th ed.). New Age International Publishers.
6.	Mukherjee, R. (n.d.). Research methodology in social sciences. Sterling Publishers.
7.	Punch, K. F. (2014). Introduction to social research: Quantitative and Qualitative Approaches (3rd ed.). SAGE Publications Ltd.
8.	https://www.youtube.com/@managementtutorials
9.	https://egyankosh.ac.in/bitstream/123456789/17254/1/Unit-4.pdf
10.	https://egyankosh.ac.in/bitstream/123456789/101432/1/Unit-8.pdf
11.	https://us.sagepub.com/sites/default/files/upm-binaries/94370_Chapter_2_Variables_and_Measurement.pdf
12.	https://www.uth.tmc.edu/uth_orgs/educ_dev/osser/L1_TOC.HTM
13.	https://www.youtube.com/watch?v=3rOCtHKj3R0
14.	https://egyankosh.ac.in/bitstream/123456789/79678/1/Unit-10.pdf
15.	https://uca.edu/psychology/files/2013/08/Ch6-Methods-of-Data-Collection.pdf
16.	https://www.lboro.ac.uk/media/media/schoolanddepartments/mlsc/downloads/spss-and-statistics-guide.pdf
17.	https://www.ibm.com/docs/en/SSLVMB_28.0.0/pdf/IBM_SPSS_Statistics_Brief_Guide.pdf
18.	https://www.sciencedirect.com/science/article/pii/S0148296319304564 (ROL)
19.	https://study.sagepub.com/sites/default/files/Onwuegbuzie%20%26%20Frels.pdf (methodology of Literature Review)
20.	https://scispace.com/resources/types-of-literature-review/
21.	https://tamu.libguides.com/c.php?g=1289555 (AI-Based Literature Review Tools)
22.	https://www.intrac.org/app/uploads/2017/01/Basic-tools-for-data-collection.pdf
23.	https://pdf.sciencedirectassets.com/271680/1-s2.0-S0148296319X00089/1-s2.0-S0148296319304564/main.pdf?
24.	https://libguides.princeton.edu/dss
25.	https://social-change.co.uk/files/Knowledge_Hub_-_qualitative_research_analysis.pdf
26.	https://files.eric.ed.gov/fulltext/ED612353.pdf
27.	https://www.researchgate.net/publication/361063562_Content_analysis_or_thematic_analysis_Similarities_differences_and_applications_in_qualitative_research
28.	https://getthematic.com/insights/content-analysis-vs-thematic-analysis/#:~:text=Large%20vs.,the%20nuances%20of%20the%20data.
29.	https://egyankosh.ac.in/bitstream/123456789/20951/1/Unit-1.pdf
30.	https://egyankosh.ac.in/bitstream/123456789/79649/1/Unit-2.pdf
31.	https://ebooks.inflibnet.ac.in/hsp16/chapter/parametric-and-non-parametric-test-meaning-importance-application-merits-and-demerits/
32.	https://www.sciencedirect.com/topics/computer-science/parametric-statistic
33.	https://pmc.ncbi.nlm.nih.gov/articles/PMC3096219/pdf/i1524-5012-10-3-213.pdf
34.	https://www.analyticsvidhya.com/blog/2021/06/hypothesis-testing-parametric-and-non-parametric-tests-in-statistics/
35.	https://egyankosh.ac.in/bitstream/123456789/11209/1/Unit-9.pdf (Statistical Packages)
36.	https://www.techtarget.com/whatis/definition/SPSS-Statistical-Package-for-the-Social-Sciences

37.	https://cicerocq.wordpress.com/wp-content/uploads/2020/03/tarek-azzam-stephanie-evergreen-data-visualization-part-1-new-directions-for-evaluation-number-139-2013-jossey-bass.pdf
38.	https://au.sagepub.com/sites/default/files/research-methods-excel-catalogue-2015.xlsx
39.	https://visualize.data.gov.in/

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH)												
Year	IV	FABRIC DESIGN AND MANUFACTURE - ADVANCE STRUCTURES, SMART TEXTILES AND CAD APPLICATIONS (Major 18)				Credits/Hours per week Hours per semester		4 (2+2) / 6 hours per week (Theory: 30 hours Practical:60 hours) Total: 90 hours/semester				
Semester	I	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 /100 Marks				
Mode of Transaction		Lecture and Practical										
Course Outcome (CO) CO1: In-depth understanding of woven figure designs and its representation. CO2: Understanding of various Fabric Manufacturing methods – Knitting, Non-woven and Leather. CO3: Introduce innovations in technical and smart textiles with their applications across industries. CO4: Acquisition of practical skills in Textile Designing through Weaving, Dyeing and Printing. CO5: Skills development in Computer Application in Textile Designing. CO6: Computer Aided Design Skills for Woven Craft Designing.												
Unit no.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES). Human Values (HV), Professional Ethics (PE)
THEORY												
I	Compound Weave structures Principle, characteristics, classification, manufacture and design drafts compound weaves 1. Backed Fabrics 2. Double cloth structure 3. Extra warp and extra weft figuring 4. Brocades and Damasks figuring 5. Tapestry fabrics 6. Pile fabrics 7. Leno fabrics 8. Lappet and Swivel				20	30	2,4,6	1	2	Employability, Skill Development	Local, National, Global	Environment Sustainability, Professional Ethics

II	Leather, Knitted and Non-woven Structures 1. Terms and definitions 2. Classification, types and techniques / processing 3. Principles, properties and end uses	05	10	2, 3	2	2	Employability	National, Global	Environment Sustainability
III	Technical and Smart Textiles 1. Technical Textiles a. Introduction, classification and scope (Agrotech, Meditech, Geotech, etc.) b. Fibres and yarns used in technical textiles c. Fabric structures used: multilayer, spacer fabrics, composites 2. Smart Textiles a. Definition and types (Passive, Active, Ultra-smart) b. Integration of electronics and sensors c. Conductive, Photovoltaic and e-textiles d. Colour changing textiles e. Shape-memory and thermochromic textiles	05	10	2,3,5	3	2	Employability, Entrepreneurship	National, Global	Environment Sustainability, Professional Ethics
PRACTICAL									
IV	Surface and Structural Design Analysis and Sample making 1. Understanding Textile layouts and its application through sample analysis 2. Fabric analysis and weaving compound structures 3. Fabric ornamentation by Discharge Printing	30	25	3,4,6	4	2	Employability, Skill Development	Local, National, Global	Environment Sustainability
V	Introduction of Computer Application in Textile Design 1. CAD Application for Industry a. Preparing designs with different repeats systems and layouts in Adobe Illustrator b. Colour and weave effects in Adobe Photoshop 2. CAD Application for Traditional Textile and Craft Designing a. Motif development and Layout Development for Traditional Woven Textiles of Gujarat b. It's actual sample preparation in collaboration with artisans	30	25	3,5,6	5,6	3	Employability, Entrepreneurship, Skill Development	Local, National, Global	Environment Sustainability, Human Value, Professional Ethics

SUGGESTED EVALUATION			
CCE (50% IA)	MARKS	SEE (50% UA)	MARKS
Class test (Written exam)	20	Written Semester Exam	50
Class Assignment /Home Assignment/ Case studies	10		
Field Assignment / Presentation	20		
Total	50	Total	50
REFERENCES			
1.	Buresh, F. M. (1962). Non-woven Fabrics. Reinhold Publishing Corporation.		
2.	Gokarneshan, N. (2004). Fabric Structure and Design. New Age International (P) Publishers.		
3.	Grosicki, Z. (1988). Watson's Textile Design and Colour – Elementary weaves and figured fabric. Woodhead Publishing; 7th edition (1 January 1975); CBS Publisher.		
4.	Horrocks, A.R., and Anand, S. C. (2000). Handbook of Technical Textiles. Woodhead Publishing Ltd.		
5.	McNamara, S. (1994). Design and Practice for Printed Textiles. Oxford University Press.		
6.	Nimkulrat, N., Kane, F., & Walton, K. (Eds.). (2016). Crafting Textiles in the Digital Age. Bloomsbury Academic.		
7.	Schneegass, S. and Amft, O. (2017). Smart Textiles - Fundamentals, Design, and Interaction. Springer Publication.		
8.	Shenai, V.A. (1980) Textile Printing and Processes. Sevak Publication.		
9.	https://abcnews.go.com/Technology/breakthrough-electronic-display-fabrics-pave-smart-clothing/story?id=76426075		

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

PSO2: Develop an in-depth understanding of diverse textile structures and materials, including technical and smart textiles, and their construction principles, performance, and contemporary applications.

PSO3: Apply digital design tools and traditional techniques in surface ornamentation, weave simulation, and sample making to foster innovation, cultural preservation, and industry-ready textile solutions.

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27			
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH)											
Year	IV	TEXTILE CHEMISTRY				Credits/Hours per week Hours per semester		4 (3+1) / 5 hours per week Total: 75 hours/semester			
Semester	I	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36/100 Marks			
Mode of Transaction		Lectures and Practical									
Course Outcome (CO) CO1: Understand the principles of polymer science and relate fibre structure to physical and chemical properties.. CO2: Demonstrate the manufacturing processes and chemical composition of regenerated, protein, and synthetic fibres. CO3: Apply instrumental techniques such as FTIR, XRD, and SEM for fibre identification and analysis. CO4: Analyse the behaviour of textile fibres when subjected to acids, alkalis, oxidizing and reducing agents. CO5: Perform qualitative and quantitative chemical tests for identification of fibres and fibre blends.											
Unit no.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES). Human Values (HV), Professional Ethics (PE)
I	Polymer Science 1. Fundamental Concepts of Fibre Polymers, Polymerization mechanisms - addition and condensation, Degree of polymerization and molecular weight. 2. Classification of polymers used in textiles, Structure of textile polymers, Crystalline and amorphous regions in fibres. 3. Glass transition temperature and melting temperature, Orientation and intermolecular forces in polymers, Structure–property relationship in textile fibres, Thermal behaviour and degradation of polymers.			10	13	1,2,3	1	1	Employability	National, Global	Environment Sustainability, Professional Ethics
II	Natural Fibre Polymer Structure 1. Polymer Structure, Chemical Composition, Polymer			12	16	1,2,3,4	2	1	Employability / Entrepreneurship	Local, National,	Environment Sustainability, Gender

	modification, Physical and chemical properties of natural textile fibres. a. Cellulosic Fibres • Cotton - structure, composition and properties • Minor cellulosic fibres - structure and characteristics b. Protein Fibres • Wool - polymer structure, chemical composition and properties • Silk - polymer structure, chemical composition and properties 2. Structure–property relationship in synthetic fibre polymers, Chemical reactivity and thermal behaviour of synthetic fibre polymers.						Skill Development	Global	Human Values
III	Synthetic Fibre Polymer Structure 1. Polymer structure, chemical composition, polymer modification, and physical and chemical properties of synthetic textile fibres. a. Polyamide Fibres • Nylon - polymer structure, composition and properties. b. Polyester Fibres • PET - polymer structure, composition and properties. c. Acrylic Fibres • Polymer structure, copolymer composition and properties. d. Polyolefin Fibres • Polypropylene - polymer structure, composition and characteristics. 2. Structure - property relationship in synthetic fibre polymers, Chemical reactivity and thermal behaviour of synthetic fibre polymers.	12	16	1,2,3,4	2, 4	1	Employability	National, Global	Environment Sustainability, Professional Ethics
IV	Instrumental Analysis of Textile Fibres 1. Principles and applications of instrumental techniques in fibre analysis • Infrared spectroscopy (FTIR) for identification	11	15	2,3,4,5	3	1	Employability	Global	Professional Ethics, Environment Sustainability

	of fibre polymers • X-ray diffraction (XRD) for crystalline structure analysis • Scanning Electron Microscopy (SEM) for surface morphology of fibres • Ultraviolet Visible spectroscopy (UV-Vis) for analysis of dyes and chemical treatments • Thermal analysis of fibres - basic concepts of DSC and TGA. • Application of instrumental methods in studying chemical and structural changes in fibres.								
V	Practical - Textile Fibre Chemistry 1. Identification of textile fibres • Microscopic identification of natural and synthetic fibres. • Longitudinal and cross-sectional view of fibres 2. Chemical behaviour of fibres • Action of acids and alkalis on different textile fibres. • Effect of oxidizing and reducing agents on fibres 3. Qualitative and quantitative analysis • Chemical identification tests for cellulosic, protein and synthetic fibres. • Qualitative analysis of fibre blends. • Quantitative estimation of cellulose and regenerated fibres 4. Instrumental and analytical exposure (demonstration/data based) • Interpretation of FTIR spectra for fibre identification • Study of chemical damage on fibres using microscopic observation	30	40	3,4,5,6	4,5	1	Employability, Skill Development	National, Global	Professional Ethics, Environment Sustainability, Human Values
SUGGESTED EVALUATION									
CCE (50% IA)			MARKS		SEE (50% UA)				MARKS
Class Test (Written Mid Semester Examination)			25		Final Test (Written End Semester Examination)				50
Lab work Assessment / Practical Journal			15						

Assignment	05		
Attendance	05		
Total	50	Total	25

PREREQUISITES

1.	Basic concepts of organic chemistry and fundamentals of polymer science
2.	Structure, properties, and classification of textile fibres
3.	Basic textile testing and fibre identification techniques
4.	Elementary understanding of laboratory safety and chemical handling

REFERENCES

1.	Cook, J. G. (2001). <i>Handbook of textile fibres</i> (Vol. 1: Natural fibres, 5th ed.). Woodhead Publishing.
2.	Cook, J. G. (2009). <i>Handbook of textile fibres</i> (Vol. 2: Man-made fibres, 5th ed.). Woodhead Publishing.
3.	Grover, E. B., & Hamby, D. S. (2011). <i>Handbook of textile testing and quality control</i> . Bhushan Printline.
4.	Gulrajani, M. L. (2010). <i>Chemical processing of textiles</i> . Woodhead Publishing India.
5.	Lewin, M. (Ed.). (2016). <i>Handbook of fiber chemistry</i> (4th ed.). CRC Press.
6.	Mahapatra, N. N. (2015). <i>Textile technology</i> . A.P.H. Publishing Corporation.
7.	Rastogi, D., & Chopra, S. (2017). <i>Textile science</i> . Orient Blackswan.
8.	Saville, B. P. (2018). <i>Physical testing of textiles</i> (3rd ed.). Woodhead Publishing.
9.	Sekhri, S. (2011). <i>Textbook of fabric science: Fundamentals to finishing</i> . PHI Learning Pvt. Ltd.
10.	Smith, J. L. (2015). <i>Textile processing: Printing, dyeing, finishing</i> . Abhishek Publications.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH)												
Year	IV	ESSENTIALS OF FABRIC CARE (Minor 7)				Credits/Hours per week Hours per semester		4 (4+0) / 4 hours per week (Theory: 60 hours) Total: 60 hours/semester				
Semester	I	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 / 100 Marks				
Mode of Transaction		Lecture and Tutorial										
Course Outcome (CO) CO1: Understand the importance of care and maintenance of textiles CO2: Understand the different types of cleaning materials- soaps, detergents, auxiliaries and their uses CO3: Identify and removal of different stains from different fabrics CO4: Understand different methods of storage according to textile materials and precautionary measures for its conservation.												
Unit no.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES). Human Values (HV), Professional Ethics (PE)
I	Essential aspects of fabric care 1. Introduction to textile fibres and properties 2. Factors affecting the selection of textile fibres 3. Clothing care and maintenance: Laundry, ironing and storage				06	10	1,2	1	5	Employability, Skill Development	Global	Environment Sustainability
II	Laundering Agents 1. Materials for laundering, pretesting of garments before laundering-seam slippage, care labels, fabric type etc. 2. Type of water: Hard and Soft Water, Methods of softening water 3. Laundry soaps, non-ionic soaps, Manufacturing process				18	30	1,2	2	5	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics

	4. Bleaches and whitening agents 5. Laundry agents- acidic and alkaline 6. Starch and stiffening agents: Natural and synthetic starch								
III	Laundering and finishing of natural and synthetic textile materials 1. Pre treatments 2. Care Labels 3. Washing-equipment and techniques 4. Drying-principles, equipment and technique 5. Ironing-equipment and techniques 6. Specialized Cleaning Techniques: Hand washing & Dry Cleaning 7. Finishing-Mechanical and Chemical	12	20	1,2	2,3	5	Employability, Entrepreneurship, Skill Development	Global	Environment Sustainability, Professional Ethics
IV	Stain Removal 1. Identification and classification of different types of stains 2. Methods for stain removal (Scraping, dipping, sponging etc.) 3. Stain removal agents- use of various stain removal agents and their impact on different fabrics	18	30	2,3,4	3	5	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
V	Care and Storage of different textiles 1. Traditional Methods 2. Conventional Methods 3. Sustainable Storage Practices	06	10	1	4	5	Employability, Entrepreneurship, Skill Development	Global	Environment Sustainability, Professional Ethics
SUGGESTED EVALUATION									
CCE (50% IA)		MARKS	SEE (50% UA)					MARKS	
Class test (Written exam)		25	Final Test (Theory + Application)					50	
Presentation		10							
Report writing / Field assignment/ Case study		15							
Total		50	Total					50	
REFERENCES									

1.	Bhargav. P. (2019). Textile and Laundry. Arjun Publishing House
2.	D'Souza, N. (1998). Fabric Care. New Age International Publishers.
3.	Gupta, S. (2018). Textbook of Clothing, Textiles and Laundry. Kalyani Publishers.
4.	Joseph, M L. (1988). Essentials of Textiles. Wadsworth Publishing Co Inc
5.	Pushpanjali. (2016). Textile Clothing and Laundry. Random Publications.
6.	Sekhri, S. (2010). Textbook of Fabric Science: Fundamentals of finishing, Prentice Hall India Learning Private Limited
7.	Trotman, E.R. (1964). Dyeing and Chemical Technology, Charles Griffin and Company Ltd.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade			Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH)											
Year	IV	DISSERTATION I (Research Project I)			Credits/Hours per week Hours per semester		6 (0+6) / 12 hours per week (Practical:180 hours) Total: 180 hours/semester				
Semester	I	Year of Introduction: 2023-24 Year of revision:			Minimum / Maximum Marks		36 /100 Marks				
Mode of Transaction		Practical									
Course Outcome (CO) CO1: Practical Experience in Research Methodology. CO2: Identifying, selecting, and assessing information from various sources to develop ideas. CO3: Apply appropriate research methodologies and techniques to collect and analyse data effectively. CO4: Develop coherent and well-structured arguments to support research findings. CO5: Communicate research results clearly through academic reports and oral presentations in a formalized scientific method.											
Unit no.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES), Human Values (HV), Professional Ethics (PE)
I	Introduction of Topic Framing 1.Understanding research and its relevance in design/textiles. 2. Overview of research types: cultural, technical, historical, experimental, and practice-led. 3. Selection of a relevant and meaningful topic. 4. Formulation of aim, objectives, scope, and limitations. Development and submission of a research proposal (including topic approval).			40	22	1,2,3	1,2	6	Skill Development (Research skills, analytical thinking, Topic formulation, understanding methodologies)	Global	Professional Ethics

II	Literature Review and Conceptual Framework 1. Identification and critical evaluation of relevant sources. 2. Thematic organization and analysis of literature 3. Formulation of a conceptual framework	40	22	2,3,4	2,4	6	Skill Development (Research Orientation, Critical thinking, analytical skills, structured reasoning)	Global	Professional Ethics
III	Research Methodology and Tool Design: 1. Sampling techniques: random, purposive, and stratified. 2. Design of research instruments: surveys, interview guides, observation schedules. 3. Pre-testing of data collection tools. 4. Ethical considerations in data collection. 5. Primary data collection (field, lab, studio, community) 6. Recording observations, images and process documentation.	50	28	3,4	3	6	Skill Development (Data reliability, Research design, Problem solving, Ethical Reasoning, Academic Writing)	Global	Professional Ethics
IV	Academic writing and Assessment: 1. Data Presentation, statistical analysis and scientific writing. 2. Viva/ Presentation (Internal Review).	50	28	4,5	3,4,5	6	Skill Development (Academic Integrity and Ethical Writing, Document Design and Technical Editing)	Global	Professional Ethics

SUGGESTED EVALUATION

CCE (50% IA)	MARKS	SEE (50% UA)	MARKS
Class test (Written exam)	15	Final Test (Theory + Application)	50
Practical Software assignments	10		
Poster or Paper presentation/ Report writing / Field assignment/ Case study	15		
Academic writing task(s)	10		
Total	50	Total	50

REFERENCES

1.	Creswell, J. W., & Creswell, J. D. (2018). Research design: Qualitative, quantitative, and mixed methods approach (5th ed.). SAGE Publications.
2.	Gale, C., & Eicher, J. B. (Eds.). (2013). Berg encyclopedia of world dress and fashion. Bloomsbury.
3.	Greetham, B. (2019). How to write your undergraduate dissertation (4th ed.). Palgrave Macmillan.
4.	Kothari, C. R., & Garg, G. (2019). Research methodology: Methods and techniques (4th ed.). New Age International Publishers.
5.	Kumar, R. (2023). Research methodology: A step-by-step guide for beginners (6th ed.). Sage Publications.
6.	Oliver, P. (2012). Succeeding with your literature review: A handbook for students. McGraw-Hill Education.
7.	Quinn, B. (2020). Textile design theory in the making. Bloomsbury Visual Arts.
8.	Walliman, N. (2019). Your undergraduate dissertation: The essential guide for success (2nd ed.). Sage Publications.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27			
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH)											
Year	IV	RECENT TRENDS AND TECHNOLOGIES IN CLOTHING AND TEXTILES (Major 20)				Credits/Hours per week Hours per semester		4 (3+1) / 5 hours per week (Theory: 45 hours Practical:30 hours) Total: 75 hours/semester			
Semester	II	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 /100 Marks			
Mode of Transaction		Lecture and Practical									
Course Outcome (CO) CO1: Analyse current and future trends in the clothing and textile industry, including the impact of global fashion movements and changing consumer behaviour. CO2: Evaluate socio-cultural, environmental, and economic influences on clothing and textile practices, with an emphasis on fast and slow fashion models. CO3: Ability to apply digital technologies such as Computer-Aided Design (CAD), 3D printing, and virtual prototyping in fashion design and production. CO4: Apply advanced technologies such as seamless garment construction, 3D body scanning, automation, nanotechnology and biotechnology to develop customized, adaptive and innovative textiles.											
Unit no.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES). Human Values (HV), Professional Ethics (PE)
I	Introduction to Emerging trends and Sustainable fashion 1. Overview of current and future trends in Clothing and Textiles 2. Influence of Global and Sustainable Fashion movements and Consumer behaviour 3. Impact of Socio-cultural, Environmental, and Economic changes 4. Fast Fashion vs. Slow Fashion 5. Circular Economy in Textiles			14	18	2,4,5	1	7	Employability	Global	Environment Sustainability Human Values Professional Ethics
II	CASE STUDIES Sustainable and Eco-Friendly Textiles			14	18	3,4	2	7	Employability	Global	Environment Sustainability Human Values

	1. Organic, recycled and biodegradable fibers 2. Green manufacturing processes/ Ethical process 3. Waterless dyeing, digital printing and eco-innovations 4. Sustainable certifications (GOTS- Global Organic textile Standards, ISO, OEKO-TEX, Better Cotton initiative, Blue Sign, Recycled clean Standard etc.)								Professional Ethics
III	Smart and Functional Textiles 1. Wearable technology (Biomimetic), Smart fabrics and E-textiles 2. Phase change materials (PCMs) and Shape memory fabrics, Chameleon textiles 3. Healthcare and Sports 4. Nanotechnology in Textiles 5. Customized and adaptive clothing 6. Biotechnology in fiber development	15	20	3,4	2	7	Employability	Global	Environment Sustainability Human Values Professional Ethics
IV	Digital Technologies in Fashion and Apparel 1. Computer Aided Designing in design and production 2. 3D printing and Virtual prototyping 3. AI and Machine learning in Fashion forecasting 4. Block chain in fashion 5. Augmented Reality (AR) and Virtual Reality (VR) in fashion retail	14	18	2,4,5	3	7	Employability	Global	Environment Sustainability Human Values Professional Ethics
PRACTICALS									
V	1. Trend Spotting Activity a. Visual and written documentation of current and emerging textile trends using social media, fashion weeks, trade reports and blogs 2. Visit to a Sustainable brand/ Manufacturer a. Green manufacturing process and ethical practices	18	26	3,4,6	4		Employability, Entrepreneurship	Global	Environment Sustainability Human Values Professional Ethics

	3. Perform a 3D body scan using a scanner or 3D scanning application for customized garment 4. Apply a commercially available Nano-coating on fabric samples and analyse the results through basic testing							
SUGGESTED EVALUATION								
CCE (50% IA)		MARKS	SEE (50% UA)				MARKS	
Class test (Written exam)		20	Final Test (Theory)				50	
Class Assignment /Home Assignment		10						
Project/Presentation		20						
Total		50	Total				50	
REFERENCES								
1.	Abbate, S., Islam, M. M., & Gill, S. (2021). Mapping environmentally sustainable practices in textiles, apparel and fashion industries: A systematic literature review. Journal of Fashion Marketing and Management, 25(2), 331–353. https://doi.org/10.1108/JFMM-07-2020-0130							
2.	Banerjee, S. S., Mohapatra, S., & Saha, G. (2021). Developing a framework of AI for fashion forecasting: A case-study validation. International Journal of Enterprise Network Management, 12(2), 165–180.							
3.	Fletcher, K. (2014). Sustainable fashion and textiles: Design journeys. Routledge.							
4.	Henninger, C. E., Alevizou, P. J., & Oates, C. J. (2017). Sustainable fashion: Consumer awareness and education. Springer.							
5.	Mohammadi, S. O., & Kalhor, A. (2021). Smart fashion: A review of AI applications in the fashion & apparel industry. Journal of Artificial Intelligence and Capsule Networks, 3(4), 284. https://doi.org/10.36548/jaicn.2021.4.002 scispace.com +8 researchgate.net +8 scribd.com +8							
6.	Muthu, S. S. (Ed.). (2015). Handbook of sustainable apparel production. CRC Press.							
7.	Sinclair, R. (Ed.). (2015). Textiles and fashion: Materials, design and technology. Woodhead Publishing.							
8.	Singha, K. (2019). Recent advancements in wearable and smart textiles: A critical review. Journal of Physics: Materials.							

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH)												
Year	IV	COLOUR SCIENCE AND ITS APPLICATION (Major 21)				Credits/Hours per week Hours per semester		4 (2+2) / 6 hours per week (Theory: 30 hours Practical:60 hours) Total: 90 hours/Semester				
Semester	II	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 /100 Marks				
Mode of Transaction		Lecture and Practical										
Course Outcome (CO) CO1: Understanding the scientific aspects of colours, their fastness properties. CO2: Understanding of the colour formulation, assessment of colour differences, colour sorting techniques and colour perception. CO3: Understanding theory of colour measurements in solution and on textiles and the instruments used for colour measurement. CO4: Demonstrate competence in industrial colour applications such as dye lot management, colour branding, and matching. CO5: Identify environmentally sustainable practices in colouration and comply with textile eco-legislation.												
Unit no.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES), Human Values (HV), Professional Ethics (PE)
I	Light and Colour Science 1. Electromagnetic Radiation and Visible Spectrum 2. Principle of Colour perception 3. Sources of Illumination: Natural and Artificial 4. Colour Systems a. Additive and Subtractive colour Mixing b. Colour Order Systems c. CIE Colour Specification, Computation Tristimulus Value-X,Y,Z from Reflectance Values, The CIELAB (L*, a, b*) coordinates, Visual assessment of colour difference in textile and metamerism 5. Instruments for the measurement of colour, principles of spectrometer				12	20	1,2	1,2	8	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
II	Perception of Colour 1. Physiology of the Eye Perception mechanism				12	20	1,2	1,2,3	8	Employability,	Global	Environment Sustainability

	2. Theories of Colour vision 3. Defects in Colour Vision 4. Assess for Colour Blindness						Skill Development		Professional Ethics
III	Dyes, Pigment, Dyeing and Environmental Considerations 1. Classification of Dyes and Pigment a. According to application b. According to Chemical Constitution 2. Theory of Dyeing 3. Relation between Colour and Chemical Constitution: Witts Theory 4. Environmental and health impacts of dyeing 5. Introduction to Eco- legislation in textile dyeing	12	20	1,2	1,2,3	8	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
PRACTICAL									
IV	Colour Systems and Spectrophotometric Analysis 1. Colour systems: Ostwald, Munsell and CIE Systems 2. Instrumental colour analysis using Spectrophotometric a. K/S values, reflectance curves of dyed fabrics CIE L*a*b coordinates, ΔE Calculations b. Colour strength assessment 3. Visual colour shade sorting using the colour matching cabinet under various light sources 4. Dye Extraction and identification using standard chemical tests a. Cellulosic: Direct, Vat, Reactive b. Protein: Acid, Natural dyes c. Synthetic: Disperse, Basic	27	20	2,3,4	4	8	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
V	Industry Colour Management and Quality Control a. Lab-Dip Analysis and Shade Matching simulation b. Industry case studies and dye lot analysis c. Dyeing industry field visit and observation d. Production Documentation and Quality Protocols	27	20	1,2,3	2,4,5	8	Employability Skill Development	Global	Environment Sustainability, Professional Ethics
SUGGESTED EVALUATION									
CCE (50% IA)			MARKS			SEE (50% UA)			MARKS
Class test (Written exam)			20			Semester Exam (Theory)			50
Class Assignment/ Home Assignment			10						
Field Visit/ Presentation			20						

Total		50	Total		50
REFERENCES					
1.	Albers, J. (2019). Interaction of colour. Yale University Press.				
2.	Arora, M. G. (1996). Textbook of dyes. Anmol Publications.				
3.	Chatwal, G. R. (2002). Synthetic dyes. Himalaya Publishing House.				
4.	Choudhury, A. K. R. (2011). Textile preparation and dyeing. Society of Dyers and Colourists.				
5.	Giles, C. H. (1983). A laboratory course in dyeing. Society of Dyers and Colourists.				
6.	Guptee, V. C. (2008). Colour technology: Tools, techniques & application. Colour Publications Pvt. Ltd.				
7.	Itten, J. (1970). The elements of colour. John Wiley & Sons.				
8.	Shenai, V. A. (1979). Introduction to the chemistry of dyestuff. Sevak Prakashan.				
9.	Shenai, V. A., & Saraf, N. M. (1991). Principles and practice of dyeing. Sevak Prakashan.				
10.	Trotman, E. R. (1964). Dyeing and chemical technology of fibres. Charles Griffin & Company Limited.				

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+ " Grade				Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH)												
Year	IV	ADVANCED DRAPING AND PATTERN MAKING FOR FASHION COLLECTION (Major 19)				Credits/Hours per week Hours per semester		4 (0+4) / 8 hours per week (Practical:120 hours) Total: 120 hours/semester				
Semester	I	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 / 100 Marks				
Mode of Transaction		Practical										
Course Outcome (CO)												
CO1: Apply advanced draping techniques to develop complex garment components using fabrics with varied weights and drape characteristics.												
CO2: Create a professional portfolio of original draped designs through sketches, illustrations, fabric swatches, colour and inspiration boards and technical details.												
CO3: Develop accurate flat patterns from draped garments and construct efficient marker plans tailored to different fabric widths and styles.												
CO4: Source appropriate fashion materials and prepare detailed specification sheets that reflect the technical and aesthetic requirements of the designed garments.												
CO5: Construct and finish fashion garments based on draped designs using selected materials, demonstrating advanced craftsmanship and attention to detail.												
CO6: Present a design portfolio with a clear articulation of personal design philosophy, creativity, and technical competence in draping and fashion construction												
Unit no.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES). Human Values (HV), Professional Ethics (PE)
I	Advance Draping 1. Draping techniques for complex designs. 2. Working with fabrics of different weight, stiffness and drape. To create sleeves, collars, yokes, cowls and many other design details.				28	23	3,6	1	4	Employability, Entrepreneurship, Skill Development	Local, National, Regional, Global	Gender, Environment Sustainability, Professional Ethics
II	Preparation of a Portfolio 1. Sketches, illustrations, and renderings of draped designs 2. Illustrations or photographs of designed garments. 3. Swatches of fabrics used in designs. 4. Colour Boards, Inspiration Boards and Technical Drawings of the designs				25	21	5,6	2	4	Employability, Entrepreneurship, Skill Development	Local, National, Regional, Global	Gender, Environment Sustainability, Professional Ethics

III	Pattern Making and Marker Plan 1. Development of flat patterns for draped designed 2. Preparing markers for different fabric width and designs	25	21	3, 4	3	4	Employability, Entrepreneurship, Skill Development	Local, National, Regional, Global	Gender, Environment Sustainability, Professional Ethics
IV	Sourcing of materials and spec sheet 1. Sourcing of fashion materials 2. Preparation of specification sheet 3. Procurement of fashion materials 4. Construction of designed fashion garments	26	22	3, 5	4	4	Employability, Entrepreneurship, Skill Development	Local, National, Regional, Global	Gender, Environment Sustainability, Professional Ethics
V	Portfolio presentation and Fashion promotion by Visual Merchandising Demonstration of design skills and creativity	16	13	4, 5	5,6	4	Employability, Entrepreneurship, Skill Development	Local, National, Regional, Global	Gender, Environment Sustainability, Professional Ethics

SUGGESTED EVALUATION

CCE (50% IA)		MARKS	SEE (50% UA)		MARKS
Class test (Practical)		30	Final Exam		50
Portfolio		10			
Field Assignment/Presentation		10			
Total		50	Total		50

REFERENCES

1.	Armstrong, H. J. (2000). Draping for apparel design. Fairchild Books.
2.	Burns, L. D., & Bryant, N. O. (1997). The business of fashion: Designing, manufacturing and marketing. Fairchild Publications.
3.	Cloake, D. (1998). Cutting & draping special occasion clothes. B Batsford Ltd.
4.	Crawford-Amaden, C. (1996). The art of fashion draping (2nd ed.). Fairchild Publishers.
5.	Duburg, A., & Van der Tol, R. (2008). Draping: Art and craftsmanship in fashion design. De Jonge Hond Publishing.
6.	Frings, G. S. (2008). Fashion: From concept to consumer (9th ed.). Pearson Prentice Hall.
7.	Jaffe, H., & Relis, N. (1993). Draping for fashion designing (2nd ed.). Prentice Hall.
8.	Kiisel, K. (2013). Draping: The complete course. Laurence King Publishing.
9.	Sato, H. (2011). Drape drape 1. Laurence King Publishing.
10.	Sato, H. (2012). Drape drape 2. Laurence King Publishing.
11.	Sato, H. (2013). Drape drape 3. Laurence King Publishing.
12.	Stone, E. (2008). The dynamics of fashion (3rd ed.). Fairchild Books.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade			Academic Year		2026-27					
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH)												
Year	IV	INDIAN COSTUMES (Minor 8)			Credits /Hours per week Hours per semester		4(4+0) Credits / 04 hours per week (Theory: 60 hours) Total: 60hours					
Semester	II	Year of Introduction: 2023-24 Year of revision:			Minimum / Maximum Marks		36 /100 Marks					
Mode of Transaction		Lecture										
Course outcome (CO) CO1 Identify major traditional costumes of different regions of India. CO2 Explain historical influences on Indian clothing. CO3 Recognize textiles, motifs, and draping styles. CO4 Analyze the cultural and symbolic significance of costumes. CO5 Relate traditional costumes to modern fashion trends.												
Unit No.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY												
I.	Introduction to Indian a. Meaning and importance of costumes b. Factors influencing clothing: climate, geography, culture, religion c. Overview of Indian textiles and craftsmanship d. Evolution of Indian costumes from ancient to medieval period				10	16	1,2	1,4	2,3	Employability, Entrepreneurship, Skill Development	Global	Gender, Human values
II.	Costumes of North and West India a. North India: Punjab, Kashmir, Himachal Pradesh, Uttar Pradesh b. West India: Gujarat, Rajasthan, Maharashtra c. Traditional garments (e.g., saree, ghagra, salwar kameez, turban styles) d. Fabrics, embroidery, and ornamentation				15	25	2,3	2,3	2,3	Entrepreneurship	Global	Gender, Human values

III.	Costumes of South and East India a. South India: Tamil Nadu, Kerala, Karnataka, Andhra Pradesh b. East & Northeast India: West Bengal, Assam, Odisha, tribal costumes c. Draping styles and regional variations d. Traditional textiles and weaving techniques	15	25	2,3,6	2,3	2,3	Employability, Entrepreneurship, Skill Development	Global	Gender, Environment Sustainability
IV.	Historical and Cultural Perspectives a. Costumes in ancient, medieval, and Mughal periods b. Influence of foreign cultures (Persian, British, etc.) c. Costumes in rituals, festivals, and performing arts	10	16	2,3,6	2	3	Employability, Entrepreneurship, Skill Development	Global	Environment Sustainability
V.	Contemporary Trends and Sustainability a. Revival of traditional textiles in modern fashion b. Role of designers in promoting Indian costumes c. Sustainable fashion and handloom sector d. Global influence of Indian costumes	10	18	2,3,6	3,5	2,3	Employability, Entrepreneurship, Skill Development	Global	Gender, Environment Sustainability

SUGGESTED EVALUATIONS

CCE (50% IA)		SEE (50% UA)	
	Marks		Marks
Written Class Test	20	Written Semester Exam	50
Presentation	10		
Home Assignment	05		
Quiz	10		
Attendance	05		
Total	50	Total	50

REFERENCES

- Amjad, A. I., Kalkreuter, B., & Mukhopadhyay, S. (Eds.). (2025). *Traditional textiles of the Indian subcontinent: Sustainable engineering, manufacturing, and design*. Springer.
- Bajwa, R. K. (2023). *Traditional costumes of India*. Abhishek Publications.
- Bhatnagar, P. (2005). *Decorative design history in Indian textiles and costumes*. New Delhi, India: Abhishek Publications.
- Biswas, A. (2003). *Indian costumes*. New Delhi, India: Publications Division, Ministry of Information and Broadcasting.
- Chishti, R. K. (2010). *Saris: Tradition and beyond*. Lustre Press.
- Crill, R. (2015). *Indian fashion: Tradition, innovation, style*. London: Victoria and Albert Museum.
- Dhamija, J. (1970). *Indian folk arts and crafts*. New Delhi: National Book Trust, India.
- Gillow, J., & Barnard, N. (2014). *Indian textiles*. Thames & Hudson.
- Goswamy, B. N. (1993). *Indian costumes in the collection of the Calico Museum of Textiles*. Ahmedabad: Calico Museum of Textiles, Sarabhai Foundation.
- Goswamy, B. N., & Krishna, K. (2002). *Indian Costumes*. Ahmedabad, India: Calico Museum of Textiles.
- Gupta, D., Majumdar, A., & Gupta, S. (Eds.). (2024). *Functional textiles and clothing 2023: Proceedings of the 3rd International Conference*. Springer.
- Kawlra, A. (2012). *Clothing, culture and identity in India*. Routledge.

13.	Kumar, R. (1999). <i>Costumes and textiles of royal India</i> . London: Christie's Books.
14.	Kumar, R. (2006). <i>Costumes and Textiles of Royal India</i> . Woodbridge, UK: Antique Collectors' Club.
15.	Manglik, R. (2023). <i>Indian textiles and costumes</i> . EduGorilla Publication
16.	Pathak, A. (2006). <i>Indian Costumes</i> . New Delhi, India: Roli Books.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade			Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH)											
Year	I V	DISSERTATION II (RESEARCH PROJECT 2)			Credits/Hours per week Hours per semester		3 (0+6) / 18 hours per week (Practical:180 hours) Total: 180 hours/semester				
Semester	II	Year of Introduction: 2023-24 Year of revision:			Minimum / Maximum Marks		36 /100 Marks				
Mode of Transaction		Practical									
Course Outcome (CO) CO1: Practical Experience in Research Methodology CO2: Identifying, selecting, and assessing information from various sources to develop ideas. CO3: Apply appropriate research methodologies and techniques to collect and analyse data effectively. CO4: Develop coherent and well-structured arguments to support research findings. CO5: Communicate research results clearly through academic reports and oral presentations in a formalized scientific method.											
Unit no.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R) / Global(G)	Relation to Gender (G), Environment Sustainability (ES). Human Values (HV), Professional Ethics (PE)
I	Data Collection and Data Analysis 1. Systematic Approaches to Data Collection 2. Organization and Structuring of Data- Structuring quantitative and qualitative data 3. Application of Visual Analytical Tools 4. Interpretation and Correlation of Findings			40	22	4	1,2,3	11	Employability, Skill Development	Global	Professional Ethics
II	Creative and Design based Application 1. Conceptual Translation of Research Findings 2. Development of Prototypes and samples 3. Cultural and contextual relevance in design			40	22	6	2,4	11	Employability, Skill Development	Global	Professional Ethics

III	Dissertation Writing and Documentation 1. Structuring Academic Chapters: Abstract, Introduction, Literature Review, Methodology, Findings, Conclusion, and References. 2. Editing, Proofreading and formatting. 3. Documentation of Supplementary Materials (e.g., images, transcripts, and survey data).	50	28	3,5,6	3,4,5	11	Employability, Skill Development	Global	Professional Ethics
IV	Final Presentation and Evaluation 1. Preparation and Submission of Final Presentation 2. Viva Voce Examination 3. Exhibition and Public Display (if applicable)	50	28	5,6	5	11	Employability, Skill Development	Global	Professional Ethics
SUGGESTED EVALUATION									
CCE (50% IA)		MARKS	SEE (50% UA)					MARKS	
Viva/Presentation		20	Final Test (Application)					50	
Report writing		20							
Academic writing task(s)		10							
Total		50	Total					50	
REFERENCES									
1.	Creswell, J. W., & Creswell, J. D. (2018). Research design: Qualitative, quantitative, and mixed methods approaches (5th ed.). SAGE Publications.								
2.	Gale, C., & Eicher, J. B. (Eds.). (2013). Berg encyclopedia of world dress and fashion. Bloomsbury.								
3.	Greetham, B. (2019). How to write your undergraduate dissertation (4th ed.). Palgrave Macmillan.								
4.	Kothari, C. R., & Garg, G. (2019). Research methodology: Methods and techniques (4th ed.). New Age International Publishers.								
5.	Kumar, R. (2023). Research methodology: A step-by-step guide for beginners (6th ed.). SAGE Publications.								
6.	Oliver, P. (2012). Succeeding with your literature review: A handbook for students. McGraw-Hill Education.								
7.	Quinn, B. (2020). Textile design theory in the making. Bloomsbury Visual Arts.								
8.	Walliman, N. (2019). Your undergraduate dissertation: The essential guide for success (2nd ed.). SAGE Publications.								

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Enclosure PROPOSED Clothing and Textiles (Clothing and Textiles) COURSE SYLLABUS

**DEPARTMENT OF CLOTHING AND TEXTILES
FACULTY OF FAMILY AND COMMUNITY SCIENCES**

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, BARODA

**Programme: B.Sc. (Family and Community Sciences)
CLOTHING AND TEXTILES (CLOTHING AND TEXTILES) WITHOUT RESEARCH
Fourth Year Course Syllabus with PSO**

Program-specific objectives (PSO) - CLOTHING AND TEXTILES

PSO 1: To gain the skills for plan, create, and launch a fashion brand and collection using design thinking, business planning, and modern marketing in a sustainable and global context.

PSO 2: To Provide in-depth knowledge of sustainable materials, design, and circular fashion while analyzing textile lifecycle impacts, adopting ethical standards, and researching sustainability solutions

PSO 3: To analyze the evolution, trends, challenges, and opportunities in the clothing and textile industry at national and global levels.

PSO 4: To develop a thorough understanding of fabric types, care requirements, stain removal, damage prevention, and sustainable practices by evaluating fabric properties, selecting appropriate care products and techniques, and promoting eco-friendly and responsible textile maintenance.

PSO 5: To apply theoretical knowledge in real-world settings with effective skills, analysis, and ethical responsibility.”

PSO 6: To apply consumer behaviour theories and market research tools to analyse motivations, cultural influences, and purchasing patterns in the textile and apparel industry for informed decision-making.

PSO 7: To utilize digital marketing concepts, tools, and e-commerce models to develop, manage, and implement effective online strategies for fashion and textile enterprises.

PSO 8: To enable learners to innovate in textiles and fashion by applying digital tools, AI, and automation within sustainable, ethical, and entrepreneurial practices. **PSO 9:** To apply colour theory, sustainability, and forecasting to resolve textile colouration issues and develop effective design, branding, and merchandising strategies.

PSO 10: To exhibit professional and ethical competence by demonstrating responsibility, integrity, and adherence to workplace norms and environmental standards in academic, industrial, and community settings.

B.Sc (F.C.Sc) Clothing and Textiles (Clothing and Textiles) (REGULAR) Faculty of Family and Community Sciences (Fourth Year – Level 6.0)

 THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA सत्यं जितं सुन्दरम् Estd. 1949	NAAC Accredited "A+" Grade Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda	Academic Year	2026-27
---	--	----------------------	----------------

COURSE SYLLABUS FOR FOURTH YEAR B.Sc. (Family and Community Sciences)

CLOTHING AND TEXTILES (CLOTHING AND TEXTILES)

Without Research

Year (level)	Semester	Course Name	Credit	Course type
IV (6.0)	7	Advanced Research, Data Science, Computer Applications and Academic Writing	4(2+2)	Major 17
		Fabric Design and Manufacture: Advanced Structures, Smart Textiles and CAD Applications	4(2+2)	Major 18
		Textile Chemistry	4(3+1)	Major 19
		1 Minor from a basket of 6 courses Essentials of Fabric Care	4(4+0)	Minor 7
		On-Job Training I	6(0+6)	OJT 1
		TOTAL	22(11+11)	
	8	Recent Trends and Technologies in Clothing and Textiles	4(3+1)	Major 20
		Colour Science and its Applications	4(2+2)	Major 21
		Advanced Draping and Pattern Making for Design Collections	4(0+4)	Major 22
		1 Minor from a basket of 6 courses Indian Costumes	4(4+0)	Minor 8
		On-Job Training II	6(0+6)	Research Project 2
		TOTAL	22 (9+13)	

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) Fourth Year- Level 6.0 (WITHOUT RESEARCH)												
Year	IV	ADVANCED RESEARCH, DATA SCIENCE, COMPUTER APPLICATIONS, AND ACADEMIC WRITING (Major 17)				Credits/Hours per week Hours per semester		4 (2+2) / 6 hours per week (Theory: 30 hours Practical:60 hours) Total: 90 hours/semester				
Semester	I	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 /100 Marks				
Mode of Transaction		Lecture and Practical										
Course Outcome (CO) CO1: Develop advanced understanding of research paradigms, mixed methods, and ethical frameworks. CO2: Distinguish between parametric and non-parametric tests and apply them to relevant data sets. CO3: Apply computational statistics and choose appropriate data analysis techniques using software tools. CO4: Perform statistical analysis using SPSS, R, and Excel; visualize data effectively. CO5: Write academically, using discipline-specific styles and referencing systems. CO6: Prepare a comprehensive research proposal/report with originality and integrity.												
Unit no.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES), Human Values (HV), Professional Ethics (PE)
THEORY												
I	Advance Research Methodology 7. Meaning, objectives and importance of research 8. Mixed methods research 9. Types of research designs: Fundamental, Applied, Action, Descriptive, Analytical, experimental and longitudinal 10. Validity and reliability in research 11. Triangulation and data integration 12. Research ethics in digital age				06	07	2,3	1	1	Skill Development (Research orientation, critical thinking)	Global	Professional Ethics

II	Introduction to Computational Statistics and Data Science Concepts 7. Types of data: structured vs. unstructured 8. Parametric tests: t-test, F-test, ANOVA, Pearson's correlation, Regression, factor analysis 9. Non-parametric tests: Chi-square, Mann-Whitney U, Kruskal-Wallis, Wilcoxon Signed-Rank, Spearman's/Kendall's Correlation, Friedman Test 10. Introduction to machine learning basics (clustering, prediction) 11. Choosing the right test based on data type and sample size 12. Importance of data ethics and reproducibility	12	13	3,4	2	1	Skill Development (Data literacy, analytical skills)	Global	Professional Ethics
III	Academic Writing: Types, Ethics, Process, Structure and Format 7. Types of Articles 8. Ethical and Legal Standards in Publishing 9. Online and Off-line Resources for Review and Publishing 10. Planning the writing process a. Getting started - Use outline as starting device and Drafting 11. Standard Structure and Content of Report a. Preliminary Information b. Title, Abstract, Introduction, Review of Literature, Methodology, Results and discussion, Summary and Conclusion. c. Bibliography and footnotes.- crediting sources d. Appendices and Annexure – Use and guidelines 12. General Guidelines for writing clearly and concisely a. Organization and writing style b. Reducing bias c. Grammar and Usage. d. Proof reading - reflecting, re-reading and checking	12	14	4,5,6	5	1	Skill Development (Academic Writing and Communication)	Global	Professional Ethics

	10. Page Layout and Text format 11. Understanding Title, headings, sub-headings and body 12. Forms of data presentation - Diagrammatic and Graphic/ Figures - Graphs - Tables - Plates / Photographs								
PRACTICAL									
IV	Software Tools for Data Analysis 7. Introduction to SPSS, R, and Excel for statistical analysis 8. Data cleaning, coding, entry 9. Descriptive and inferential statistics 10. Data visualization using charts, graphs, Tables, dashboards, info-graphics 11. Introduction to Google Forms 12. NVivo / R for Content and Thematic Analysis	30	33	3	3,4	1	Skill Development (Digital competency, software use, problem-solving)	Global	Professional Ethics
V	Computer Application in Academic Writing 9. Literature review techniques and Online Tools for Data Collection 10. Citation and referencing tools (Zotero, Mendeley) 11. Avoiding plagiarism and using plagiarism check tools (Grammarly, Turnitin) 12. Formatting Text – Page Layout, Editing, Spacing, Inserting Header / Footer, Page numbering, Page /Section breaks, Changing Page margins and Orientation 13. Formatting Tables and Photographs 14. Creating charts, hyperlinks, macros, bookmarks, mail merge and table of contents 15. Proofing, comments and tracking changes for reviewing 16. Automatic chapter and subsection numbering	20	22	5,6	5	1	Skill Development (Digital Literacy, Academic Integrity and Ethical Writing, Document Design and Technical Editing, ICT Skills for Research and Publication)	Global	Professional Ethics

	11. Document and PC protection 12. Formatting article / chapters using learnt concepts								
VI	Formulation of Research Proposal and Scholarly Presentation 6. Planning and presenting research ideas a. Identifying research gaps b. Criteria for selecting a research problem c. Steps in defining the research problem d. Developing objectives and research questions e. Defining population and Sample f. Types and Techniques of Data collection g. Hypothesis formulation - Variables: Independent, dependent, control, extraneous 7. Structuring proposals for grants or academic submissions (with Hypothesis) 8. Poster presentation and info-graphic creation 9. Undergo Peer review process 10.Ethical publishing practices and avoidance of plagiarism	10	11	5,6	6	1	Skill Development (Professional Communication and Presentation Skills, scholarly integrity, project management)	Global	Professional Ethics
SUGGESTED EVALUATION									
CCE (50% IA)		MARKS	SEE (50% UA)					MARKS	
Class test (Written exam)		15	Final Test (Theory + Application)					50	
Practical Software assignments		10							
Poster or Paper presentation/ Report writing / Field assignment/ Case study		15							
Academic writing task(s)		10							
Total		50	Total					50	
REFERENCES									
1.	Bell, J., & Waters, S. (2018). Doing your research project: A guide for first-time researchers. Open University Press.								
2.	Bordens, K., & Abbott, B. B. (2018). Research Design and Methods: A Process Approach (10th ed.). McGraw-Hill.								
3.	Creswell, J. W., & Creswell, J. D. (2018). Research Design: Qualitative, Quantitative, and Mixed Methods Approaches (5th ed.). Sage Publications.								

4.	Field, A. (2017). Discovering statistics using IBM SPSS statistics (5th ed.). Sage Publishers.
5.	Kothari, C. R., & Garg, G. (2019). Research methodology: Methods and techniques (4th ed.). New Age International Publishers.
6.	Mukherjee, R. (n.d.). Research methodology in social sciences. Sterling Publishers.
7.	Punch, K. F. (2014). Introduction to social research: Quantitative and Qualitative Approaches (3rd ed.). SAGE Publications Ltd.
8.	https://www.youtube.com/@managementtutorials
9.	https://egyankosh.ac.in/bitstream/123456789/17254/1/Unit-4.pdf
10.	https://egyankosh.ac.in/bitstream/123456789/101432/1/Unit-8.pdf
11.	https://us.sagepub.com/sites/default/files/upm-binaries/94370_Chapter_2_Variables_and_Measurement.pdf
12.	https://www.uth.tmc.edu/uth_orgs/educ_dev/osser/L1_TOC.HTM
13.	https://www.youtube.com/watch?v=3rOCtHKj3R0
14.	https://egyankosh.ac.in/bitstream/123456789/79678/1/Unit-10.pdf
15.	https://uca.edu/psychology/files/2013/08/Ch6-Methods-of-Data-Collection.pdf
16.	https://www.lboro.ac.uk/media/media/schoolanddepartments/mlsc/downloads/spss-and-statistics-guide.pdf
17.	https://www.ibm.com/docs/en/SSLVMB_28.0.0/pdf/IBM_SPSS_Statistics_Brief_Guide.pdf
18.	https://www.sciencedirect.com/science/article/pii/S0148296319304564 (ROL)
19.	https://study.sagepub.com/sites/default/files/Onwuegbuzie%20%26%20Frels.pdf (methodology of Literature Review)
20.	https://scispace.com/resources/types-of-literature-review/
21.	https://tamu.libguides.com/c.php?g=1289555 (AI-Based Literature Review Tools)
22.	https://www.intrac.org/app/uploads/2017/01/Basic-tools-for-data-collection.pdf
23.	https://pdf.sciencedirectassets.com/271680/1-s2.0-S0148296319X00089/1-s2.0-S0148296319304564/main.pdf?
24.	https://libguides.princeton.edu/dss
25.	https://social-change.co.uk/files/Knowledge_Hub_-_qualitative_research_analysis.pdf
26.	https://files.eric.ed.gov/fulltext/ED612353.pdf
27.	https://www.researchgate.net/publication/361063562_Content_analysis_or_thematic_analysis_Similarities_differences_and_applications_in_qualitative_research
28.	https://getthematic.com/insights/content-analysis-vs-thematic-analysis/#:~:text=Large%20vs.,the%20nuances%20of%20the%20data.
29.	https://egyankosh.ac.in/bitstream/123456789/20951/1/Unit-1.pdf
30.	https://egyankosh.ac.in/bitstream/123456789/79649/1/Unit-2.pdf
31.	https://ebooks.inflibnet.ac.in/hsp16/chapter/parametric-and-non-parametric-test-meaning-importance-application-merits-and-demerits/
32.	https://www.sciencedirect.com/topics/computer-science/parametric-statistic
33.	https://pmc.ncbi.nlm.nih.gov/articles/PMC3096219/pdf/i1524-5012-10-3-213.pdf
34.	https://www.analyticsvidhya.com/blog/2021/06/hypothesis-testing-parametric-and-non-parametric-tests-in-statistics/
35.	https://egyankosh.ac.in/bitstream/123456789/11209/1/Unit-9.pdf (Statistical Packages)
36.	https://www.techtarget.com/whatis/definition/SPSS-Statistical-Package-for-the-Social-Sciences

37.	https://cicerocq.wordpress.com/wp-content/uploads/2020/03/tarek-azzam-stephanie-evergreen-data-visualization -part-1-new-directions-for-evaluation-number-139-2013-jossey-bass.pdf
38.	https://au.sagepub.com/sites/default/files/research-methods-excel-catalogue-2015.xlsx
39.	https://visualize.data.gov.in/

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITHOUT RESEARCH)												
Year	IV	FABRIC DESIGN AND MANUFACTURE - ADVANCE STRUCTURES, SMART TEXTILES AND CAD APPLICATIONS (Major 18)				Credits/Hours per week Hours per semester		4 (2+2) / 6 hours per week (Theory: 30 hours Practical:60 hours) Total: 90 hours/semester				
Semester	I	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 /100 Marks				
Mode of Transaction		Lecture and Practical										
Course Outcome (CO) CO1: In-depth understanding of woven figure designs and its representation. CO2: Understanding of various Fabric Manufacturing methods – Knitting, Non-woven and Leather. CO3: Introduce innovations in technical and smart textiles with their applications across industries. CO4: Acquisition of practical skills in Textile Designing through Weaving, Dyeing and Printing. CO5: Skills development in Computer Application in Textile Designing. CO6: Computer Aided Design Skills for Woven Craft Designing.												
Unit no.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES). Human Values (HV), Professional Ethics (PE)
THEORY												
I	Compound Weave structures Principle, characteristics, classification, manufacture and design drafts compound weaves 9. Backed Fabrics 10. Double cloth structure 11. Extra warp and extra weft figuring 12. Brocades and Damasks figuring 13. Tapestry fabrics 14. Pile fabrics 15. Leno fabrics 16. Lappet and Swivel				20	30	2,4,6	1	2	Employability, Skill Development	Local, National, Global	Environment Sustainability, Professional Ethics

II	Leather, Knitted and Non-woven Structures 4. Terms and definitions 5. Classification, types and techniques / processing 6. Principles, properties and end uses	05	10	2, 3	2	2	Employability	National, Global	Environment Sustainability
III	Technical and Smart Textiles 3. Technical Textiles a. Introduction, classification and scope (Agrotech, Meditech, Geotech, etc.) b. Fibres and yarns used in technical textiles c. Fabric structures used: multilayer, spacer fabrics, composites 4. Smart Textiles a. Definition and types (Passive, Active, Ultra-smart) b. Integration of electronics and sensors c. Conductive, Photovoltaic and e-textiles d. Colour changing textiles e. Shape-memory and thermochromic textiles	05	10	2,3,5	3	2	Employability, Entrepreneurship	National, Global	Environment Sustainability, Professional Ethics
PRACTICAL									
IV	Surface and Structural Design Analysis and Sample making 4. Understanding Textile layouts and its application through sample analysis 5. Fabric analysis and weaving compound structures 6. Fabric ornamentation by Discharge Printing	30	25	3,4,6	4	2	Employability, Skill Development	Local, National, Global	Environment Sustainability
V	Introduction of Computer Application in Textile Design 3. CAD Application for Industry a. Preparing designs with different repeats systems and layouts in Adobe Illustrator b. Colour and weave effects in Adobe Photoshop 4. CAD Application for Traditional Textile and Craft Designing a. Motif development and Layout Development for Traditional Woven Textiles of Gujarat b. It's actual sample preparation in collaboration with artisans	30	25	3,5,6	5,6	3	Employability, Entrepreneurship, Skill Development	Local, National, Global	Environment Sustainability, Human Value, Professional Ethics

SUGGESTED EVALUATION				
CCE (50% IA)		MARKS	SEE (50% UA)	MARKS
Class test (Written exam)		20	Written Semester Exam	50
Class Assignment /Home Assignment/ Case studies		10		
Field Assignment / Presentation		20		
Total		50	Total	50
REFERENCES				
1.	Buresh, F. M. (1962). Non-woven Fabrics. Reinhold Publishing Corporation.			
2.	Gokarneshan, N. (2004). Fabric Structure and Design. New Age International (P) Publishers.			
3.	Grosicki, Z. (1988). Watson’s Textile Design and Colour – Elementary weaves and figured fabric. Woodhead Publishing; 7th edition (1 January 1975); CBS Publisher.			
4.	Horrocks, A.R., and Anand, S. C. (2000). Handbook of Technical Textiles. Woodhead Publishing Ltd.			
5.	McNamara, S. (1994). Design and Practice for Printed Textiles. Oxford University Press.			
6.	Nimkulrat, N., Kane, F., & Walton, K. (Eds.). (2016). Crafting Textiles in the Digital Age. Bloomsbury Academic.			
7.	Schneegass, S. and Amft, O. (2017). Smart Textiles - Fundamentals, Design, and Interaction. Springer Publication.			
8.	Shenai, V.A. (1980) Textile Printing and Processes. Sevak Publication.			
9.	https://abcnews.go.com/Technology/breakthrough-electronic-display-fabrics-pave-smart-clothing/story?id=76426075			

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

PSO2: Develop an in-depth understanding of diverse textile structures and materials, including technical and smart textiles, and their construction principles, performance, and contemporary applications.

PSO3: Apply digital design tools and traditional techniques in surface ornamentation, weave simulation, and sample making to foster innovation, cultural preservation, and industry-ready textile solutions.

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade			Academic Year		2026-27		
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITHOUT RESEARCH)									
Year	IV	TEXTILE CHEMISTRY Major 19			Credits/Hours per week Hours per semester		4 (3+1) / 5 hours per week Total: 75 hours/semester		
Semester	I	Year of Introduction: 2023-24 Year of revision:			Minimum / Maximum Marks		36/100 Marks		
Mode of Transaction		Lectures and Practical							
Course Outcome (CO)									
CO1: Understand the principles of polymer science and relate fibre structure to physical and chemical properties..									
CO2: Demonstrate the manufacturing processes and chemical composition of regenerated, protein, and synthetic fibres.									
CO3: Apply instrumental techniques such as FTIR, XRD, and SEM for fibre identification and analysis.									
CO4: Analyse the behaviour of textile fibres when subjected to acids, alkalis, oxidizing and reducing agents.									
CO5: Perform qualitative and quantitative chemical tests for identification of fibres and fibre blends.									
Unit no.	Topic	Contact Hours	Weight age (%)	BT Level	CO	PS O	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES). Human Values (HV), Professional Ethics (PE)
I	Polymer Science 1. Fundamental Concepts of Fibre Polymers, Polymerization mechanisms - addition and condensation, Degree of polymerization and molecular weight. 2. Classification of polymers used in textiles, Structure of textile polymers, Crystalline and amorphous regions in fibres. 3. Glass transition temperature and melting temperature, Orientation and intermolecular forces in polymers, Structure–property relationship in textile fibres, Thermal behaviour and degradation of polymers.	10	13	1,2,3	1	1	Employability	National, Global	Environment Sustainability, Professional Ethics
II	Natural Fibre Polymer Structure 1. Polymer Structure, Chemical Composition, Polymer modification, Physical and chemical properties of natural textile fibres.	12	16	1,2,3,4	2	1	Employability / Entrepreneurship Skill Development	Local, National, Global	Environment Sustainability, Gender Human Values

	a. Cellulosic Fibres - Cotton - structure, composition and properties - Minor cellulosic fibres - structure and characteristics b. Protein Fibres - Wool - polymer structure, chemical composition and properties - Silk - polymer structure, chemical composition and properties 2. Structure–property relationship in synthetic fibre polymers, Chemical reactivity and thermal behaviour of synthetic fibre polymers.								
III	Synthetic Fibre Polymer Structure 1. Polymer structure, chemical composition, polymer modification, and physical and chemical properties of synthetic textile fibres. a. Polyamide Fibres - Nylon - polymer structure, composition and properties. b. Polyester Fibres - PET - polymer structure, composition and properties. c. Acrylic Fibres - Polymer structure, copolymer composition and properties. d. Polyolefin Fibres - Polypropylene - polymer structure, composition and characteristics. 2. Structure - property relationship in synthetic fibre polymers, Chemical reactivity and thermal behaviour of synthetic fibre polymers.	12	16	1,2,3,4	2, 4	1	Employability	National, Global	Environment Sustainability, Professional Ethics
IV	Instrumental Analysis of Textile Fibres 1. Principles and applications of instrumental techniques in fibre analysis - Infrared spectroscopy (FTIR) for identification of fibre polymers - X-ray diffraction (XRD) for crystalline structure analysis - Scanning Electron Microscopy (SEM) for surface morphology of fibres - Ultraviolet Visible spectroscopy (UV-Vis) for	11	15	2,3,4,5	3	1	Employability	Global	Professional Ethics, Environment Sustainability

	analysis of dyes and chemical treatments - Thermal analysis of fibres - basic concepts of DSC and TGA. - Application of instrumental methods in studying chemical and structural changes in fibres.								
V	Practical - Textile Fibre Chemistry - Identification of textile fibres - Microscopic identification of natural and synthetic fibres. - Longitudinal and cross-sectional view of fibres - Chemical behaviour of fibres - Action of acids and alkalis on different textile fibres. - Effect of oxidizing and reducing agents on fibres - Qualitative and quantitative analysis - Chemical identification tests for cellulosic, protein and synthetic fibres. - Qualitative analysis of fibre blends. - Quantitative estimation of cellulose and regenerated fibres - Instrumental and analytical exposure (demonstration/data based) - Interpretation of FTIR spectra for fibre identification - Study of chemical damage on fibres using microscopic observation	30	40	3,4,5,6	4,5	1	Employability, Skill Development	National, Global	Professional Ethics, Environment Sustainability, Human Values

SUGGESTED EVALUATION

CCE (50% IA)	MARKS	SEE (50% UA)	MARKS
Class Test (Written Mid Semester Examination)	25	Final Test (Written End Semester Examination)	50
Lab work Assessment / Practical Journal	15		
Assignment	05		
Attendance	05		
Total	50	Total	25

PREREQUISITES

1.	Basic concepts of organic chemistry and fundamentals of polymer science
2.	Structure, properties, and classification of textile fibres
3.	Basic textile testing and fibre identification techniques
4.	Elementary understanding of laboratory safety and chemical handling

REFERENCES	
1.	Cook, J. G. (2001). <i>Handbook of textile fibres</i> (Vol. 1: Natural fibres, 5th ed.). Woodhead Publishing.
2.	Cook, J. G. (2009). <i>Handbook of textile fibres</i> (Vol. 2: Man-made fibres, 5th ed.). Woodhead Publishing.
3.	Grover, E. B., & Hamby, D. S. (2011). <i>Handbook of textile testing and quality control</i> . Bhushan Printline.
4.	Gulrajani, M. L. (2010). <i>Chemical processing of textiles</i> . Woodhead Publishing India.
5.	Lewin, M. (Ed.). (2016). <i>Handbook of fiber chemistry</i> (4th ed.). CRC Press.
6.	Mahapatra, N. N. (2015). <i>Textile technology</i> . A.P.H. Publishing Corporation.
7.	Rastogi, D., & Chopra, S. (2017). <i>Textile science</i> . Orient Blackswan.
8.	Saville, B. P. (2018). <i>Physical testing of textiles</i> (3rd ed.). Woodhead Publishing.
9.	Sekhri, S. (2011). <i>Textbook of fabric science: Fundamentals to finishing</i> . PHI Learning Pvt. Ltd.
10.	Smith, J. L. (2015). <i>Textile processing: Printing, dyeing, finishing</i> . Abhishek Publications.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITH RESEARCH)												
Year	IV	ESSENTIALS OF FABRIC CARE (Minor 7)				Credits/Hours per week Hours per semester		4 (4+0) / 4 hours per week (Theory: 60 hours) Total: 60 hours/semester				
Semester	I	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 / 100 Marks				
Mode of Transaction		Lecture and Tutorial										
Course Outcome (CO) CO1: Understand the importance of care and maintenance of textiles CO2: Understand the different types of cleaning materials- soaps, detergents, auxiliaries and their uses CO3: Identify and removal of different stains from different fabrics CO4: Understand different methods of storage according to textile materials and precautionary measures for its conservation.												
Unit no.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES). Human Values (HV), Professional Ethics (PE)
I	Essential aspects of fabric care 1. Introduction to textile fibres and properties 2. Factors affecting the selection of textile fibres 3. Clothing care and maintenance: Laundry, ironing and storage				06	10	1,2	1	5	Employability, Skill Development	Global	Environment Sustainability
II	Laundering Agents 1. Materials for laundering, pretesting of garments before laundering-seam slippage, care labels, fabric type etc. 2. Type of water: Hard and Soft Water, Methods of softening water 3. Laundry soaps, non-ionic soaps, Manufacturing process				18	30	1,2	2	5	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics

	4. Bleaches and whitening agents 5. Laundry agents- acidic and alkaline 6. Starch and stiffening agents: Natural and synthetic starch								
III	Laundering and finishing of natural and synthetic textile materials 1. Pre treatments 2. Care Labels 3. Washing-equipment and techniques 4. Drying-principles, equipment and technique 5. Ironing-equipment and techniques 6. Specialized Cleaning Techniques: Hand washing & Dry Cleaning 7. Finishing-Mechanical and Chemical	12	20	1,2	2,3	5	Employability, Entrepreneurship, Skill Development	Global	Environment Sustainability, Professional Ethics
IV	Stain Removal 1. Identification and classification of different types of stains 2. Methods for stain removal (Scraping, dipping, sponging etc.) 3. Stain removal agents- use of various stain removal agents and their impact on different fabrics	18	30	2,3,4	3	5	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
V	Care and Storage of different textiles 1. Traditional Methods 2. Conventional Methods 3. Sustainable Storage Practices	06	10	1	4	5	Employability, Entrepreneurship, Skill Development	Global	Environment Sustainability, Professional Ethics
SUGGESTED EVALUATION									
CCE (50% IA)		MARKS	SEE (50% UA)					MARKS	
Class test (Written exam)		25	Final Test (Theory + Application)					50	
Presentation		10							
Report writing / Field assignment/ Case study		15							
Total		50	Total					50	
REFERENCES									

1.	Bhargav. P. (2019). Textile and Laundry. Arjun Publishing House
2.	D'Souza, N. (1998). Fabric Care. New Age International Publishers.
3.	Gupta, S. (2018). Textbook of Clothing, Textiles and Laundry. Kalyani Publishers.
4.	Joseph, M L. (1988). Essentials of Textiles. Wadsworth Publishing Co Inc
5.	Pushpanjali. (2016). Textile Clothing and Laundry. Random Publications.
6.	Sekhri, S. (2010). Textbook of Fabric Science: Fundamentals of finishing, Prentice Hall India Learning Private Limited
7.	Trotman, E.R. (1964). Dyeing and Chemical Technology, Charles Griffin and Company Ltd.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27	
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITHOUT RESEARCH)									
Year	IV	ON JOB TRAINING-I OJT 1				Credits/Hours per week Hours per semester		6 (0+6) / 12 hours per week (Practical:180 hours) Total: 180 hours/semester	
Semester	I	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 /100 Marks	
Mode of Transaction		Practical							
Course Outcome (CO) CO1: Understand organizational and craft-based professional systems CO2: Observe and document workflow processes CO3: Participate in supervised technical tasks CO4: Develop professional behaviour and communication skills CO5: Build structured reporting and reflective competencies									
Unit no.	Topic	Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES). Human Values (HV), Professional Ethics (PE)
I	Professional Orientation and Enterprise Understanding • Introduction to clothing Industry/ artisan practice/ Fashion Boutique • Nature of enterprise (industrial production, boutique customization, or craft-based production) • Organizational structure or craft hierarchy • Workplace norms, safety, and ethics.	20	10	1,2	1	1	Employability, Skill Development	Local, Regional, National	Gender, Human Values, Professional Ethics
II	Process Mapping and Workflow Documentation • Documentation of design-to-delivery process • Material sourcing and handling • Production or craft execution stages	25	14	3	2	1	Employability, Skill Development	Local, Regional, 1National, Global	Environment Sustainability, Human Values, Professional Ethics

	Time management and sequencing.								
III	Departmental / Functional Exposure Students shall gain exposure to functional areas such as: - Design and Sampling - Production / Craft Execution - Merchandising / Client Handling - Retail or Market Interaction.	30	17	2,3	1, 2	1	Employability, Skill Development	Regional, National, Global	Gender, Human Values, Professional Ethics
IV	Supervised Skill Application - Assisting in garment construction / craft execution - Sampling, embellishment, finishing - Client interaction (boutique) - Quality inspection support (industry)	40	22	3,4	3	1	Employability, Skill Development	Regional, National, Global	Environment Sustainability, Human Values, Professional Ethics
V	Quality and Sustainability Practices - Quality checkpoints or craft precision standards - Waste handling and material optimization - Ethical sourcing and labour practices - Sustainability in industrial vs artisanal production	20	10	4	1, 3	1	Employability, Skill Development, Entrepreneurship	National, Global	Environment Sustainability, Human Values, Professional Ethics
VI	Workplace Behaviour and Professional Skills - Communication systems - Team coordination - Time discipline and accountability - Problem observation and reporting	15	8	3	4	1	Employability, Skill Development	Local, National, Global	Gender, Human Values, Professional Ethics
VII	Documentation, Reflection and Presentation - Daily Logbook - Weekly Structured Reports - Reflective Learning Summary - Comprehensive Internship Report - Oral Presentation & Viva	30	19	4,5	4, 5	1	Employability, Skill Development, Entrepreneurship	National, Global	Human Values, Professional Ethics, Environment Sustainability

SUGGESTED EVALUATION

CCE (50% IA)		MARKS	SEE (50% UA)		MARKS
Viva		15	Final Test (Application)		50
Report writing		15			

Presentation	10		
Total	50	Total	50

REFERENCES

1.	Kothari, C. R. and Garg, Gaurav. (2019). <i>Research Methodology: Methods and Techniques</i> (4th ed.). New Age International Publishers.
2.	Zora, M. J. (2018). <i>Internship Manual: A Guide for Students</i> . McGraw-Hill Education
3.	Stone, E. (2017). <i>The Dynamics of Fashion</i> (4th ed.). Fairchild Books.
4.	Kadolph, S. J. (2013). <i>Textiles</i> (12th ed.). Pearson Education.
5.	Glock, R. E., & Kunz, G. I. (2005). <i>Apparel Manufacturing: Sewn Product Analysis</i> (4th ed.). Pearson Prentice Hall.
6.	Fletcher, K., & Grose, L. (2012). <i>Fashion & Sustainability: Design for Change</i> . Laurence King Publishing.
7.	Easey, M. (2009). <i>Fashion Marketing</i> (3rd ed.). Wiley-Blackwell.
8.	Relevant industry manuals, organizational reports, and training guidelines provided by the host organization.

PREREQUISITES

1.	Fundamental knowledge of textile fibres, yarns, and fabric construction
2.	Basic understanding of garment construction and pattern making
3.	Introductory knowledge of fashion design principles and product development
4.	Awareness of sustainability and ethical practices in textiles
5.	Basic skills in documentation, report writing, and professional communication
6.	Fundamental knowledge of textile fibres, yarns, and fabric construction

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

PSO1: To apply theoretical knowledge in real-world settings with effective skills, analysis, and ethical responsibility.

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade			Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITHOUT RESEARCH)											
Year	IV	RECENT TRENDS AND TECHNOLOGIES IN CLOTHING AND TEXTILES (Major 20)			Credits/Hours per week Hours per semester		4 (3+1) / 5 hours per week (Theory: 45 hours Practical:30 hours) Total: 75 hours/semester				
Semester	II	Year of Introduction: 2023-24 Year of revision:			Minimum / Maximum Marks		36 /100 Marks				
Mode of Transaction		Lecture and Practical									
Course Outcome (CO) CO1: Analyse current and future trends in the clothing and textile industry, including the impact of global fashion movements and changing consumer behaviour. CO2: Evaluate socio-cultural, environmental, and economic influences on clothing and textile practices, with an emphasis on fast and slow fashion models. CO3: Ability to apply digital technologies such as Computer-Aided Design (CAD), 3D printing, and virtual prototyping in fashion design and production. CO4: Apply advanced technologies such as seamless garment construction, 3D body scanning, automation, nanotechnology and biotechnology to develop customized, adaptive and innovative textiles.											
Unit no.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES). Human Values (HV), Professional Ethics (PE)
I	Introduction to Emerging trends and Sustainable fashion 6. Overview of current and future trends in Clothing and Textiles 7. Influence of Global and Sustainable Fashion movements and Consumer behaviour 8. Impact of Socio-cultural, Environmental, and Economic changes 9. Fast Fashion vs. Slow Fashion 10. Circular Economy in Textiles			14	18	2,4,5	1	7	Employability	Global	Environment Sustainability Human Values Professional Ethics
II	CASE STUDIES Sustainable and Eco-Friendly Textiles			14	18	3,4	2	7	Employability	Global	Environment Sustainability Human Values

	5. Organic, recycled and biodegradable fibers 6. Green manufacturing processes/ Ethical process 7. Waterless dyeing, digital printing and eco-innovations 8. Sustainable certifications (GOTS- Global Organic textile Standards, ISO, OEKO-TEX, Better Cotton initiative, Blue Sign, Recycled clean Standard etc.)								Professional Ethics
III	Smart and Functional Textiles 7. Wearable technology (Biomimetic), Smart fabrics and E-textiles 8. Phase change materials (PCMs) and Shape memory fabrics, Chameleon textiles 9. Healthcare and Sports 10. Nanotechnology in Textiles 11. Customized and adaptive clothing 12. Biotechnology in fiber development	15	20	3,4	2	7	Employability	Global	Environment Sustainability Human Values Professional Ethics
IV	Digital Technologies in Fashion and Apparel 6. Computer Aided Designing in design and production 7. 3D printing and Virtual prototyping 8. AI and Machine learning in Fashion forecasting 9. Block chain in fashion 10. Augmented Reality (AR) and Virtual Reality (VR) in fashion retail	14	18	2,4,5	3	7	Employability	Global	Environment Sustainability Human Values Professional Ethics
PRACTICALS									
V	3. Trend Spotting Activity a. Visual and written documentation of current and emerging textile trends using social media, fashion weeks, trade reports and blogs 4. Visit to a Sustainable brand/ Manufacturer a. Green manufacturing process and ethical practices	18	26	3,4,6	4		Employability, Entrepreneurship	Global	Environment Sustainability Human Values Professional Ethics

	3. Perform a 3D body scan using a scanner or 3D scanning application for customized garment 4. Apply a commercially available Nano-coating on fabric samples and analyse the results through basic testing							
SUGGESTED EVALUATION								
CCE (50% IA)		MARKS	SEE (50% UA)				MARKS	
Class test (Written exam)		20	Final Test (Theory)				50	
Class Assignment /Home Assignment		10						
Project/Presentation		20						
Total		50	Total				50	
REFERENCES								
1.	Abbate, S., Islam, M. M., & Gill, S. (2021). Mapping environmentally sustainable practices in textiles, apparel and fashion industries: A systematic literature review. Journal of Fashion Marketing and Management, 25(2), 331–353. https://doi.org/10.1108/JFMM-07-2020-0130							
2.	Banerjee, S. S., Mohapatra, S., & Saha, G. (2021). Developing a framework of AI for fashion forecasting: A case-study validation. International Journal of Enterprise Network Management, 12(2), 165–180.							
3.	Fletcher, K. (2014). Sustainable fashion and textiles: Design journeys. Routledge.							
4.	Henninger, C. E., Alevizou, P. J., & Oates, C. J. (2017). Sustainable fashion: Consumer awareness and education. Springer.							
5.	Mohammadi, S. O., & Kalhor, A. (2021). Smart fashion: A review of AI applications in the fashion & apparel industry. Journal of Artificial Intelligence and Capsule Networks, 3(4), 284. https://doi.org/10.36548/jaicn.2021.4.002 scispace.com +8 researchgate.net +8 scribd.com +8							
6.	Muthu, S. S. (Ed.). (2015). Handbook of sustainable apparel production. CRC Press.							
7.	Sinclair, R. (Ed.). (2015). Textiles and fashion: Materials, design and technology. Woodhead Publishing.							
8.	Singha, K. (2019). Recent advancements in wearable and smart textiles: A critical review. Journal of Physics: Materials.							

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27				
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITHOUT RESEARCH)												
Year	IV	COLOUR SCIENCE AND ITS APPLICATION (Major 21)				Credits/Hours per week Hours per semester		4 (2+2) / 6 hours per week (Theory: 30 hours Practical:60 hours) Total: 90 hours/Semester				
Semester	II	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 /100 Marks				
Mode of Transaction		Lecture and Practical										
Course Outcome (CO) CO1: Understanding the scientific aspects of colours, their fastness properties. CO2: Understanding of the colour formulation, assessment of colour differences, colour sorting techniques and colour perception. CO3: Understanding theory of colour measurements in solution and on textiles and the instruments used for colour measurement. CO4: Demonstrate competence in industrial colour applications such as dye lot management, colour branding, and matching. CO5: Identify environmentally sustainable practices in colouration and comply with textile eco-legislation.												
Unit no.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES), Human Values (HV), Professional Ethics (PE)
I	Light and Colour Science 6. Electromagnetic Radiation and Visible Spectrum 7. Principle of Colour perception 8. Sources of Illumination: Natural and Artificial 9. Colour Systems a. Additive and Subtractive colour Mixing b. Colour Order Systems c. CIE Colour Specification, Computation Tristimulus Value-X,Y,Z from Reflectance Values, The CIELAB (L*, a, b*) coordinates, Visual assessment of colour difference in textile and metamerism 10. Instruments for the measurement of colour, principles of spectrometer				12	20	1,2	1,2	8	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
II	Perception of Colour 2. Physiology of the Eye Perception mechanism				12	20	1,2	1,2,3	8	Employability,	Global	Environment Sustainability

	5. Theories of Colour vision 6. Defects in Colour Vision 7. Assess for Colour Blindness						Skill Development		Professional Ethics
III	Dyes, Pigment, Dyeing and Environmental Considerations 6. Classification of Dyes and Pigment a. According to application b. According to Chemical Constitution 7. Theory of Dyeing 8. Relation between Colour and Chemical Constitution: Witts Theory 9. Environmental and health impacts of dyeing 10. Introduction to Eco- legislation in textile dyeing	12	20	1,2	1,2,3	8	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
PRACTICAL									
IV	Colour Systems and Spectrophotometric Analysis 5. Colour systems: Ostwald, Munsell and CIE Systems 6. Instrumental colour analysis using Spectrophotometric a. K/S values, reflectance curves of dyed fabrics CIE L*a*b coordinates, ΔE Calculations b. Colour strength assessment 7. Visual colour shade sorting using the colour matching cabinet under various light sources 8. Dye Extraction and identification using standard chemical tests a. Cellulosic: Direct, Vat, Reactive b. Protein: Acid, Natural dyes c. Synthetic: Disperse, Basic	27	20	2,3,4	4	8	Employability, Skill Development	Global	Environment Sustainability, Professional Ethics
V	Industry Colour Management and Quality Control e. Lab-Dip Analysis and Shade Matching simulation f. Industry case studies and dye lot analysis g. Dyeing industry field visit and observation h. Production Documentation and Quality Protocols	27	20	1,2,3	2,4,5	8	Employability Skill Development	Global	Environment Sustainability, Professional Ethics
SUGGESTED EVALUATION									
CCE (50% IA)			MARKS			SEE (50% UA)			MARKS
Class test (Written exam)			20			Semester Exam (Theory)			50
Class Assignment/ Home Assignment			10						
Field Visit/ Presentation			20						

Total		50	Total		50
REFERENCES					
1.	Albers, J. (2019). Interaction of colour. Yale University Press.				
2.	Arora, M. G. (1996). Textbook of dyes. Anmol Publications.				
3.	Chatwal, G. R. (2002). Synthetic dyes. Himalaya Publishing House.				
4.	Choudhury, A. K. R. (2011). Textile preparation and dyeing. Society of Dyers and Colourists.				
5.	Giles, C. H. (1983). A laboratory course in dyeing. Society of Dyers and Colourists.				
6.	Guptee, V. C. (2008). Colour technology: Tools, techniques & application. Colour Publications Pvt. Ltd.				
7.	Itten, J. (1970). The elements of colour. John Wiley & Sons.				
8.	Shenai, V. A. (1979). Introduction to the chemistry of dyestuff. Sevak Prakashan.				
9.	Shenai, V. A., & Saraf, N. M. (1991). Principles and practice of dyeing. Sevak Prakashan.				
10.	Trotman, E. R. (1964). Dyeing and chemical technology of fibres. Charles Griffin & Company Limited.				

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27			
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITHOUT RESEARCH)											
Year	IV	ADVANCED DRAPING AND PATTERN MAKING FOR FASHION COLLECTION (Major 19)				Credits/Hours per week Hours per semester		4 (0+4) / 8 hours per week (Practical:120 hours) Total: 120 hours/semester			
Semester	I	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 / 100 Marks			
Mode of Transaction		Practical									
Course Outcome (CO) CO1: Apply advanced draping techniques to develop complex garment components using fabrics with varied weights and drape characteristics. CO2: Create a professional portfolio of original draped designs through sketches, illustrations, fabric swatches, colour and inspiration boards and technical details. CO3: Develop accurate flat patterns from draped garments and construct efficient marker plans tailored to different fabric widths and styles. CO4: Source appropriate fashion materials and prepare detailed specification sheets that reflect the technical and aesthetic requirements of the designed garments. CO5: Construct and finish fashion garments based on draped designs using selected materials, demonstrating advanced craftsmanship and attention to detail. CO6: Present a design portfolio with a clear articulation of personal design philosophy, creativity, and technical competence in draping and fashion construction											
Unit no.	Topic			Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability(ES). Human Values (HV), Professional Ethics (PE)
I	Advance Draping 3. Draping techniques for complex designs. 4. Working with fabrics of different weight, stiffness and drape. To create sleeves, collars, yokes, cowls and many other design details.			28	23	3,6	1	4	Employability, Entrepreneurship, Skill Development	Local, National, Regional, Global	Gender, Environment Sustainability, Professional Ethics
II	Preparation of a Portfolio 5. Sketches, illustrations, and renderings of draped designs 6. Illustrations or photographs of designed garments. 7. Swatches of fabrics used in designs.			25	21	5,6	2	4	Employability, Entrepreneurship, Skill Development	Local, National, Regional, Global	Gender, Environment Sustainability, Professional Ethics

	4. Colour Boards, Inspiration Boards and Technical Drawings of the designs								
III	Pattern Making and Marker Plan 3. Development of flat patterns for draped designed 4. Preparing markers for different fabric width and designs	25	21	3, 4	3	4	Employability, Entrepreneurship, Skill Development	Local, National, Regional, Global	Gender, Environment Sustainability, Professional Ethics
IV	Sourcing of materials and spec sheet 5. Sourcing of fashion materials 6. Preparation of specification sheet 7. Procurement of fashion materials 8. Construction of designed fashion garments	26	22	3, 5	4	4	Employability, Entrepreneurship, Skill Development	Local, National, Regional, Global	Gender, Environment Sustainability, Professional Ethics
V	Portfolio presentation and Fashion promotion by Visual Merchandising Demonstration of design skills and creativity	16	13	4, 5	5,6	4	Employability, Entrepreneurship, Skill Development	Local, National, Regional, Global	Gender, Environment Sustainability, Professional Ethics

SUGGESTED EVALUATION

CCE (50% IA)		MARKS	SEE (50% UA)		MARKS
Class test (Practical)		30	Final Exam		50
Portfolio		10			
Field Assignment/Presentation		10			
Total		50	Total		50

REFERENCES

1.	Armstrong, H. J. (2000). Draping for apparel design. Fairchild Books.
2.	Burns, L. D., & Bryant, N. O. (1997). The business of fashion: Designing, manufacturing and marketing. Fairchild Publications.
3.	Cloake, D. (1998). Cutting & draping special occasion clothes. B Batsford Ltd.
4.	Crawford-Amaden, C. (1996). The art of fashion draping (2nd ed.). Fairchild Publishers.
5.	Duburg, A., & Van der Tol, R. (2008). Draping: Art and craftsmanship in fashion design. De Jonge Hond Publishing.
6.	Frings, G. S. (2008). Fashion: From concept to consumer (9th ed.). Pearson Prentice Hall.
7.	Jaffe, H., & Relis, N. (1993). Draping for fashion designing (2nd ed.). Prentice Hall.
8.	Kiisel, K. (2013). Draping: The complete course. Laurence King Publishing.
9.	Sato, H. (2011). Drape drape 1. Laurence King Publishing.
10.	Sato, H. (2012). Drape drape 2. Laurence King Publishing.

11.	Sato, H. (2013). Drape drape 3. Laurence King Publishing.
12.	Stone, E. (2008). The dynamics of fashion (3rd ed.). Fairchild Books.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade			Academic Year		2026-27					
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITHOUT RESEARCH)												
Year	IV	INDIAN COSTUMES (Minor 8)			Credits / Hours per week Hours per semester		4(4+0) Credits / 04 hours per week (Theory: 60 hours) Total: 60hours					
Semester	II	Year of Introduction: 2023-24 Year of revision:			Minimum / Maximum Marks		36 /100 Marks					
Mode of Transaction		Lecture										
Course outcome (CO) CO1 Identify major traditional costumes of different regions of India. CO2 Explain historical influences on Indian clothing. CO3 Recognize textiles, motifs, and draping styles. CO4 Analyze the cultural and symbolic significance of costumes. CO5 Relate traditional costumes to modern fashion trends.												
Unit No.	Topic				Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp) / Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National (N) /Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES), Human Values (HV) Professional Ethics (PE)
THEORY												
I.	Introduction to Indian e. Meaning and importance of costumes f. Factors influencing clothing: climate, geography, culture, religion g. Overview of Indian textiles and craftsmanship h. Evolution of Indian costumes from ancient to medieval period				10	16	1,2	1,4	2,3	Employability, Entrepreneurship, Skill Development	Global	Gender, Human values
II.	Costumes of North and West India a. North India: Punjab, Kashmir, Himachal Pradesh, Uttar Pradesh b. West India: Gujarat, Rajasthan, Maharashtra c. Traditional garments (e.g., saree, ghagra, salwar kameez, turban styles) d. Fabrics, embroidery, and ornamentation				15	25	2,3	2,3	2,3	Entrepreneurship	Global	Gender, Human values

III.	Costumes of South and East India e. South India: Tamil Nadu, Kerala, Karnataka, Andhra Pradesh f. East & Northeast India: West Bengal, Assam, Odisha, tribal costumes g. Draping styles and regional variations h. Traditional textiles and weaving techniques	15	25	2,3,6	2,3	2,3	Employability, Entrepreneurship, Skill Development	Global	Gender, Environment Sustainability
IV.	Historical and Cultural Perspectives d. Costumes in ancient, medieval, and Mughal periods e. Influence of foreign cultures (Persian, British, etc.) f. Costumes in rituals, festivals, and performing arts	10	16	2,3,6	2	3	Employability, Entrepreneurship, Skill Development	Global	Environment Sustainability
V.	Contemporary Trends and Sustainability e. Revival of traditional textiles in modern fashion f. Role of designers in promoting Indian costumes g. Sustainable fashion and handloom sector h. Global influence of Indian costumes	10	18	2,3,6	3,5	2,3	Employability, Entrepreneurship, Skill Development	Global	Gender, Environment Sustainability

SUGGESTED EVALUATIONS

CCE (50% IA)		SEE (50% UA)	
	Marks		Marks
Written Class Test	20	Written Semester Exam	50
Presentation	10		
Home Assignment	05		
Quiz	10		
Attendance	05		
Total	50	Total	50

REFERENCES

17.	Amjad, A. I., Kalkreuter, B., & Mukhopadhyay, S. (Eds.). (2025). <i>Traditional textiles of the Indian subcontinent: Sustainable engineering, manufacturing, and design</i> . Springer.
18.	Bajwa, R. K. (2023). <i>Traditional costumes of India</i> . Abhishek Publications.
19.	Bhatnagar, P. (2005). <i>Decorative design history in Indian textiles and costumes</i> . New Delhi, India: Abhishek Publications.
20.	Biswas, A. (2003). <i>Indian costumes</i> . New Delhi, India: Publications Division, Ministry of Information and Broadcasting.
21.	Chishti, R. K. (2010). <i>Saris: Tradition and beyond</i> . Lustre Press.
22.	Crill, R. (2015). <i>Indian fashion: Tradition, innovation, style</i> . London: Victoria and Albert Museum.
23.	Dhamija, J. (1970). <i>Indian folk arts and crafts</i> . New Delhi: National Book Trust, India.
24.	Gillow, J., & Barnard, N. (2014). <i>Indian textiles</i> . Thames & Hudson.
25.	Goswamy, B. N. (1993). <i>Indian costumes in the collection of the Calico Museum of Textiles</i> . Ahmedabad: Calico Museum of Textiles, Sarabhai Foundation.
26.	Goswamy, B. N., & Krishna, K. (2002). <i>Indian Costumes</i> . Ahmedabad, India: Calico Museum of Textiles.
27.	Gupta, D., Majumdar, A., & Gupta, S. (Eds.). (2024). <i>Functional textiles and clothing 2023: Proceedings of the 3rd International Conference</i> . Springer.
28.	Kawlra, A. (2012). <i>Clothing, culture and identity in India</i> . Routledge.
29.	Kumar, R. (1999). <i>Costumes and textiles of royal India</i> . London: Christie's Books.

30.	Kumar, R. (2006). <i>Costumes and Textiles of Royal India</i> . Woodbridge, UK: Antique Collectors' Club.
31.	Manglik, R. (2023). <i>Indian textiles and costumes</i> . EduGorilla Publication
32.	Pathak, A. (2006). <i>Indian Costumes</i> . New Delhi, India: Roli Books.

Bloom's Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

		Department of Clothing and Textiles Faculty of Family and Community Sciences The Maharaja Sayajirao University of Baroda NAAC Accredited "A+" Grade				Academic Year		2026-27	
B.Sc (F.C.Sc) Clothing & Textiles (Clothing & Textiles) (REGULAR) Fourth Year- Level 6.0 (WITHOUT RESEARCH)									
Year	IV	ON JOB TRAINING-II (OJT II)				Credits/Hours per week Hours per semester		6 (0+6) / 12 hours per week (Practical:180 hours) Total: 180 hours/semester	
Semester	II	Year of Introduction: 2023-24 Year of revision:				Minimum / Maximum Marks		36 /100 Marks	
Mode of Transaction		Practical							
Course Outcome (CO) CO1 Apply theoretical knowledge gained during the BSc program to real-world professional or community settings. CO2 Demonstrate effective communication, collaboration, and problem-solving skills in a work-based or social environment. CO3 Analyse and document organizational practices, workflows, and challenges through structured reports and reflections. CO4 Present internship outcomes confidently and clearly through oral presentations, demonstrating both subject knowledge and soft skills. CO5 Reflect on ethical, environmental, and social aspects of professional practices encountered during the internship.									
Unit no.	Topic	Contact Hours	Weight age (%)	BT Level	CO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent) Skill Development (SD)	Relevance to Local(L)/ National(N)/ Regional(R)/ Global(G)	Relation to Gender(G), Environment Sustainability (ES). Human Values (HV), Professional Ethics (PE)
I	Industrial / Enterprise Internship Engagement • Internship in a recognized clothing industry, boutique, or artisan enterprise • Organizational structure and professional hierarchy • Nature of operations and production systems • Workplace ethics, safety norms, and professional practices	20	10	4	1	1	Employability, Skill Development	National, Global	Gender, Human Values, Professional Ethics
II	Design and Product Development Systems • Concept development and trend interpretation 1Collection planning and design execution	25	14	3,4	2	1	Employability, Skill Development	Regional, National, Global	Human Values, Professional Ethics

	• Sampling and prototyping • Technical specifications and documentation								
III	Manufacturing / Craft Production Processes • Apparel manufacturing systems or craft techniques • Production workflow and sequencing • Tools, machinery, or traditional methods • Time management and production efficiency	30	17	3,4	2	1	Skill Development, Employability	Regional, National, Global	Human Values, Professional Ethics
IV	Merchandising, Sourcing and Costing • Order processing and coordination • Vendor and client communication • Raw material procurement • Vendor selection and supply chain understanding • Basic costing and pricing strategies	25	14	4	2,3	1	Employability, Skill Development, Entrepreneurship	National, Global	Human Values, Professional Ethics
V	Retailing, Marketing and Promotion Strategies • Retail operations and customer interaction • Visual merchandising and display • Branding and promotional activities • Digital marketing and social media engagement	20	11	4,5	3	1	Employability, Entrepreneurship, Skill Development	National, Global	Gender, Human Values, Professional Ethics
VI	Quality, Sustainability and Professional Practices • Quality control systems and standards • Product inspection and consistency evaluation • Waste management and sustainable practices • Ethical sourcing and labour practices	20	11	4,5	4	1	Employability, Skill Development, Entrepreneurship	National, Global	Environment Sustainability, Human Values, Professional Ethics
VII	Internship Deliverables, Reporting and Presentation • Daily work diary maintenance • Weekly departmental summary reports • Internship/project report preparation • Reflection on challenges and problem-solving • Student-led presentation and viva	40	23%	5	5	1	Employability, Entrepreneurship, Skill Development	National, Global	Human Values, Professional Ethics, Environment Sustainability

SUGGESTED EVALUATION									
CCE (50% IA)			MARKS	SEE (50% UA)				MARKS	
Viva			20	Final Test (Application)				50	
Report writing			20						
Presentation			10						
Total			50	Total				50	
REFERENCES									
1.	Kothari, C. R. & Garg, Gaurav. (2019). <i>Research Methodology: Methods and Techniques</i> (4th ed.). New Age International Publishers.								
2.	Zora, M. J. (2018). <i>Internship Manual: A Guide for Students</i> . McGraw-Hill Education								
3.	Stone, E. (2017). <i>The dynamics of fashion</i> (4th ed.). Fairchild Books.								
4.	Santos, R. (2026). <i>Ecodesign and the future of textile and fashion ecosystems</i> .								
5.	Das, P. (2026). <i>Sustainable fashion and sustainable development goals: A bibliometric analysis</i> . Sustainable Production and Consumption.								
6.	Various Literature, books and magazines referred during the different subjects.								
PREREQUISITES									
1.	Successful completion of On Job Training – I .								
2.	Completion of all courses up to Semester I of Fourth Year .								
3.	Basic knowledge of apparel production, merchandising, and textile processes .								
4.	Skills in documentation, communication, and report writing .								
5.	Ability to work independently with professional responsibility and ethics .								

Bloom’s Taxonomy (BT) Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

PSO1: Exhibit professional and ethical competence by demonstrating responsibility, integrity, and adherence to workplace norms and environmental standards in academic, industrial, and community settings.