University of Mumbai

क. वि.प्रा.स.से.(युजी)/आयसीसी/२०२४–२५/४

परिपत्रक :–

सर्व प्राचार्य/संचालक, संलग्नित महाविद्यालये/संस्था, विद्यापीठ शैक्षणिक विभागांचे संचालक/विभाग प्रमुख यांना कळविण्यात येते की, राष्ट्रीय शैक्षणिक धोरण २०२० च्या अंमलबजावणीच्या अनुषंगाने शैक्षणिक वर्ष २०२४–२५ पासून एक्झिट पर्याय सह पदवी व पदव्युत्तर अभ्यासक्रम विद्यापरिषदेच्या दिनांक १७ डिसेंबर, २०२३, ३ फेब्रुवारी, २०२४, २० एप्रिल, २०२४ व २४ मे, २०२४ च्या बैठकीमध्ये मंजूर झालेले सर्व अभ्यासक्रम मुंबई विद्यापीठाच्या www.mu.ac.in या संकेत स्थळावर NEP २०२० या टॅब वर उपलब्ध करण्यात आलेले आहेत.

Balirama

(प्रा. (डॉ.) बळीराम गायकवाड)
प्र. कुलसचिव

मुंबई – ४०० ०३२
११ जून, २०२४

Copy forwarded for information and necessary action to :-	
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3	The Deputy Registrar, Marks and Certificate Unit,. Vidyanagari dr.verification@mu.ac.in
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6	The Deputy Registrar, College Affiliations & Development Department (CAD), deputyregistrar.uni@gmail.com
7	The Deputy Registrar, PRO, Fort, (Publication Section), Pro@mu.ac.in
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AC –24/05/2024
Item No. –8.6 (N)

As Per NEP 2020

University of Mumbai

Title of the program

A. U.G. Certificate in **Home Science – Textile and Fashion Technology**

B. U.G. Diploma in **Home Science - Textile and Fashion Technology**

C. B.Sc. (**Home Science - Textile and Fashion Technology)**

D. B.Sc. (Hon.) in **Home Science - Textile and Fashion Technology**

E. B.Sc. (Hons. with Research) in **Home Science - Textile and Fashion Technology**

Syllabus for Semester – Sem I & II
Ref: GR dated 20th April, 2023 for Credit Structure of UG

(With Effect from the Academic Year 2024-2025 Progressively)

University of Mumbai

(As per NEP 2020)

Sr. No.	Heading	Particulars	
1	**Title of program** **O: IMU-517A**	**A**	U.G. Certificate in Home Science - Textile and Fashion Technology
	O: IMU-517B	**B**	U.G. Diploma in Home Science - Textile and Fashion Technology
	O: IMU-517C	**C**	B.Sc. (Home Science - Textile and Fashion Technology)
	O: IMU-517D	**D**	B.Sc. (Hons.) Home Science - Textile and Fashion Technology
	O: IMU-517E	**E**	B.Sc. (Hons. with Research) in Home Science - Textile and Fashion Technology
2	**Eligibility** **O: IMU-518A**	**A**	\\\ Higher Secondary Education 10+2 OR Passed Equivalent Academic Level 4.0
	O: IMU-518B	**B**	Under Graduate Certificate in Home Science/Science/Arts/any field OR Passed Equivalent Academic Level 4.5
	O: IMU-518C	**C**	Under Graduate Diploma in Home Science/Science/Arts/any allied field OR Passed Equivalent Academic Level 5.0
	O: IMU-518D	**D**	Bachelors of Home Science/Science/Arts/any allied field with minimum CGPA in 7.5 OR Passed Equivalent Academic Level 5.5
	O: IMU-518E	**E**	Bachelors of in Home Science/Science/Arts/any allied field with minimum CGPA in 7.5 OR Passed Equivalent AcademicLevel 5.5
3	**Duration of program** **R: IMU-541**	**A**	One Year
		B	Two Years
		C	Three Years
		D	Four Years
		E	Four Years
4	**Intake Capacity** **R: IMU-542**	200 in the First Year (Allocation of Seats in Major, Minor and other components will be done into the four specializations of Home Science based on Choice and Merit across the Semesters)	

5	**Scheme of Examination** **R: IMU-543**	NEP 40% Internal 60% External, Semester End ExaminationIndividual Passing in Internal and ExternalExamination is mandatory	
6	**Standards of Passing** **R: IMU-544**	40%	
7	**Credit Structure** **Sem. I- R: IMU-545A** **Sem. II- R: IMU-545B**	Attached herewith	
	Credit Structure **Sem. III-R: IMU-545C** **Sem. IV-R: IMU-545D**		
	Credit Structure **Sem. V -R: IMU-545E** **Sem. VI-R: IMU-545F**		
8	**Semesters**	A	Sem I & II
		B	Sem III & IV
		C	Sem V & VI
		D	Sem VII & VIII
		E	Sem VII & VIII
9	**Program Academic Level**	A	4.5
		B	5.0
		C	5.5
		D	6.0
		E	6.0
10	**Pattern**	Semester	
11	**Status**	New	
12	**To be implemented from Academic Year Progressively**	From Academic Year: 2024-2025	

Sign of the BOS Chairperson
Name of the Chairperson:
Prof. Dr. Vishaka Ashish Karnad
Name of the BOS: Home Science

Sign of the Offg. Associate Dean
Name of the Associate Dean
Name of the Faculty

Sign of theOffg. Dean
Name of the Offg. Dean
Name of the Faculty

Preamble

Introduction:

Home Science is an interdisciplinary science, which offers holistic and socially-relevant educational program. Home Science has emerged as a full-fledged scientific course in which overall improvement in the quality of life of the individual, family, and community is sought. There is a prominent emphasis on professional competence and sensitivity to the needs of society. The degree courses are B.Sc. (Home Science), M.Sc. (Home Science) and Ph.D. (Home Science).

The four major areas of specialization are as follows:

- Foods, Nutrition and Dietetics
- Human Development
- Textile and Fashion Technology
- Community Resource Management

The program offers major and minor courses along with open electives (OE), ability enhancement courses (AEC), IKS, value education (VEC) vocation skill (VSC)based projects, field (FP) and research projects (RP) with due credits along with credits for cocurricular (OC) activities. It is designed in a wholesome manner and structured to impart knowledge, skills and attitudes aiming at personal, professional, career and community growth and enrichment and holistic development of individuals capable of contributing to society for national and global challenges and idiosyncrasy to be considered strongly for sustainability.

Objectives of the Program:

The objectives of the Home Science curriculum are as follows:

PO No.	After completing the program, the student should have	Graduate Attribute
PO1	the capability of demonstrating comprehensive knowledge and understanding of Home Science	Disciplinary knowledge
PO2	good language skills and the ability to express thoughts and ideas verbally as well in writing and effectively communicate the same using appropriate media suitable for different target groups	Communication Skills
PO3	competence of applying disciplinary knowledge and the ability to critically analyze and evaluate data, practices, policies and theories for knowledge development	Critical thinking
PO4	skill to identify problems and to apply disciplinary knowledge to tide over real life situations	Problem solving
PO5	aptitude to evaluate the reliability and relevance of a knowledge body, identify lacunae, analyze and draw valid conclusions	Analytical reasoning
PO6	develop a sense of enquiry and the capability for asking relevant questions for scientific understanding, along with the ability to recognize cause-and-effect relationships, define problems and plan, execute and report the results of an experiment	Research-related skills Scientific reasoning
PO7	ability to work effectively with diverse teams facilitating cooperative effort	Cooperation/Team work
PO8	ability to apply the skills, knowledge and competencies learned in through laboratory training at the personal, household, community and professional level	Reflective thinking
PO9	skill to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data and its application for different purposes	nformation/digital literacy
PO10	ability to work independently, identify appropriate resources required for a project, and manage a project through completion.	Self-directed learning
PO11	awareness of the values and beliefs of multiple cultures and the ability to interact and reflect appropriately with diverse groups with respect.	Multicultural competence
PO12	capacity to imbibe moral and ethical values and do away with falsification and plagiarism in personal and professional life. Also, the ability to identify ethical issues related to environmental and sustainability thereby developing the skill to practice unbiased actions in all aspects.	Moral and ethical awareness/reasoning
PO13	capability of planning, organizing, executing and controlling various activities with a sense of responsibility and commitment along with the skill to motivate, inspire and encourage team work in an efficient way.	Leadership readiness/qualities

1. To impart knowledge and facilitate the development of skills and techniques in the basic area of Home Science required for personal, professional and community advancement.

PO14	the competencies and acquire openness for participating in learning activities throughout life, through self-paced and self-directed learning, focusing at personal development to meet economic, social and cultural objectives and the changing trends and demands of the industry and society.	Lifelong learning

2. To inculcate in students, values and attitudes that enhance personal, life skills and family growth and to sensitize them to various social issues for the development of a humane society.
3. To promote in students a scientific temper and competencies in research to enable contributions to the national and international knowledge base in Home Science and allied fields.
4. In sum, to empower our students such that they can effect positive changes at multiple levels.

1) **Credit Structure of the Program (Sem I, II, III, IV, V & VI)**
2) **Under Graduate Certificate Home Science – Textile and Fashion Technology**

Credit Structure (Semester I & II)

	R: _____A								
Level	**Semester**	**Major**		**Minor**	**OE**	**VSC, SEC (VSEC)**	**AEC, VEC, IKS**	**OJT, FP, CEP, CC,RP**	**Cum. Cr. / Sem.**	**Degree/ Cum. Cr.**
		Mandatory	**Electives**							
4.5	**I**	**6** **Psychology of Fashion** (Theory) (2 Credits) **Fibre Studies** (Theory) (2 Credits) **Fashion Styling** (Practical) (2 Credits)		**-**	**2+2**	**VSC:2, SEC:2 Fashion Styling**	**AEC:2** **VEC:2** **IKS:2**	**CC:2**	**22**	**UG Certificate Home Science – Textile and Fashion Technology**
	R:_____B									
	II	**6** **Yarn Studies** (Theory) (2 cr) **Fabric Studies** (Theory) (2 Cr) **Product Development** (Practical) (2 cr)		**2**	**2+2**	**VSC:2, SEC:2 Product Development**	**AEC:2, VEC:2**	**CC:2**	**22**	
Cum Cr.		**12**	**-**	**2**	**8**	**4+4**	**4+4 +2**	**4**	**44**	

***Note: It is important to opt for these Vocation Skill Course VSC /Skill Enhancement Course SEC from core subjects other than the Major/Minor Streams and other than the courses previously covered across as allocated in Semesters I, II, III, IV. The ratios for groups formed for the major, minor streams and optional elective courses along with the VSC/SEC will be decided on an equitable basis considering the teaching and learning workload. The number of seats for a VSC/SEC will be decided by the admission committee.**

Exit option: Award of UG Certificate in Major with 40-44 credits and an additional 4 credits core NSQF course/ Internship OR Continue with Major and Minor

Under Graduate Diploma Home Science – Textile and Fashion Technology
Credit Structure (Semester III & IV)

										R:_____C
Level	**Semester**	**Mandatory**	**Electives**	**Minor**	**OE**	**VSC, SEC (VSEC)**	**AEC, VEC, IKS**	**OJT, FP, CEP, CC,RP**	**Cum. Cr. / Sem.**	**Degree/ Cum. Cr.**
5.0	**III**	**8** **Fashion Marketing** Theory (2 Cr) **Traditional Textiles of India** Theory (2 Cr) **Fashion Event management** Practical (2 Cr) **Childrens Wear** Practical (2 Cr)	–	**4**	**2**	**VSC:2**	**AEC:2**	**FP: 2** **CC:2**	**44**	**UG** **Diploma** **Home Science-Textile and Fashion Technology**
	R:_____D									
	IV	**8** **Fashion Accessories** (Theory) (2 Cr) **Traditional Costumes of India** (Theory) (2 Cr) **Textile Science** (Practical) (2 Cr) **Traditional Costume Styling** (Practical) (2 Credits)	—	4	**2**	**SEC:2**	**AEC:2**	**CEP: 2** **CC:2**	**44**	
	Cum Cr.	**28**		**10**	**12**	**6+6**	**8+4+2**	**8+4**	**88**	

***Note: It is important to opt for these Vocation Skill Course VSC /Skill Enhancement Course SEC from core subjects other than the Major/Minor Streams and other than the courses previously covered across as allocated in Semesters I, II, III, IV. The ratios for groups formed for the major, minor streams and optional elective courses along with the VSC/SEC will be decided on an equitable basis considering the teaching and learning workload. The number of seats for a VSC/SEC will be decided by the admission committee.**

Exit option; Award of UG Diploma in Major and Minor with 80-88 credits and an additional 4 credits core NSQF course/ Internship OR Continue with Major and Minor

Under Graduate B.Sc. Home Science – Textile and Fashion Technology
Credit Structure (Semester V & VI)

Level	Semester	Major		Minor	OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Cum. Cr. /Sem.	Degree/ Cum. Cr.
		Mandatory	Electives							
5.5	R: _____E									UG Degree B.Sc. Home Science – Textile and Fashion Technology 132 Credits
	V	10 **Woven Fabric Structures** (Theory) (2 Cr) **Dyeing and Printing** (Theory) (2 Cr) **Export and Import Merchandising** (Theory) (2 Credits) **Dyeing and Printing** (Practical) (2 Credits) **Pattern and Apparel Making I** (Practical) (2 Cr)	4 **Elective 1** **Textile Design (Theory) (2 Cr)** **Textile Design (Practical) (2 Cr)** **Elective 2** **Traditional Embroideries of India** (Theory) (2 Credits) **Traditional Embroideries of India** (Practical) (2 Cr)	4		VSC: 2		FP/CEP: 2	22	
	R: _____F									
	VI	10 **Knitted and Nonwoven Fabric Structures** (Theory) (2 Cr) **Textile Testing** (Theory) (2 Cr) **Fabric Analysis and Construction** (Practical) (2 Credits) **Textile Testing** (Practical) (2 Cr) **Pattern and Apparel Making II** (Practical) (2 Credits)	4 **Entrepreneurship in Textile Arts and Crafts** (Theory) (2 Cr) **Entrepreneurship in Textile Arts and Crafts (**Practical) (2 Cr) **Entrepreneurship in Apparel** (Theory) (2 Cr) **Entrepreneurship in Apparel** (Practical) (2 Cr)	4				OJT: 4	22	
	Cum Cr.	48	8	18	12	8+6	8+4+2	8+6+4	132	

***Note: It is important to opt for these Vocation Skill Course VSC /Skill Enhancement Course SEC from core subjects other than the Major/Minor Streams and other than the courses previously covered across as allocated in Semesters I, II, III, IV. The ratios for groups formed for the major, minor streams and optional elective courses along with the VSC/SEC will be decided on an equitable basis considering the teaching and learning workload. The number of seats for a VSC/SEC will be decided by the admission committee.**
Exit option: Award of UG Degree in Major with 132 credits OR Continue with Major and Minor

[Abbreviation - OE – Open Electives, VSC – Vocation Skill Course, SEC – Skill Enhancement Course, (VSEC), AEC – Ability Enhancement Course, VEC – Value Education Course, IKS – Indian Knowledge System, OJT – on Job Training, FP – Field Project, CEP – Continuing Education Program, CC – Co-Curricular, RP – Research Project]

Semester - I

Syllabus
B.Sc. Home Science – Textile and Fashion Technology
(Semester - I)
MAJOR

Course Code	Course Title	Theory/ Practical	Hours	Credits
	Psychology of Fashion	**Theory**	**30**	**2**

Course Objectives:

The course enables learners to:

- Understand the fashion terminologies and theories.
- Apply the knowledge of psychology of clothing concerning self and society.
- Analyze the relationship between clothing, fashion and body types.
- Evaluate the various factors affecting clothing behavior about personality and roles.

Course Outcomes:	
At the successful completion of the course, students will be able to:	
CO1	Understand the origin and theories of clothing in relation to physical self and body image
CO2	Apply the theories of clothing with bodily traits and relate social settings with selection of fabrics and clothing categories across age groups and physique.
CO3	Categorize clothing for different groups on the basis of social perception, feedback and self-concept.
CO4	Comprehend the impact of mass media on clothing.
CO5	Explain the theories of fashion in relation to clothing behavior, personality and role types.

Sr. No.	Course Content	Hours
1.	**A. Introduction to Clothing and Fashion** i. Origin and Theories of Dress and Adornment ii. Purpose for Dress – Modesty, Adornment, Protection and Utility Clothing and Physical Self iii. Fashion Terminology iv. Fashion Theory Process **B. Clothing and Physical Self** i. Body Image and Social Ideals ii. Bodily Traits and Social Influences iii. Physical Attractiveness iv. Physical Disabilities and Appropriate Clothing	**15**
2.	**A. Clothing, Personality, and Roles** i. Dramaturgy ii. Role theory and Role acquisition/conflict/embracement iii. Symbolic interactive theory iv. Clothing and personality **B. Clothing, Socialization and Concept of Self** i. Stages in Self-concept formation ii. Self-comparison / perception / esteem iii. Clothing in groups and organizations iv. Clothing society and self v. Impact of mass media on clothing	**15**

References:
Kaiser, S. B. (1985). *The Social Psychology of Clothing*. New York: MacMillan.
Kerr, H. (2009). *Who What Wear: Celebrity and Runway Style for Real Life*. New York: Abrams.
Kim, E. (2011). *Fashion Trends: Analysis and Forecasting*. Oxford; New York: Berg.
Martin, R. (2010). *The Trend Forecaster's Handbook.* London: Laurence King, 2010.
McKelvey, K. (2008). *Fashion Forecasting. Chichester*, U.K.: Ames, IA: Wiley Blackwell.
Udale, J. (2008). *Textile and Fashion*. Switzerland: AVA Publishing.

Syllabus
B.Sc. Home Science – Textile and Fashion Technology
(Semester - I)
MAJOR

Course Code	Course Title	Theory/ Practical	Hours	Credits
	Fibre Studies	**Theory**	**30**	**2**

Course Objectives:

The course enables learners to:

- Understand the cultivation/manufacturing processes of natural and synthetic textile fibres.
- Identify the physical and chemical properties and uses of natural and synthetic textile fibres.
- Understand the importance of fibre blends and their application.

Course Outcomes:	
At the successful completion of the course, students will be able to:	
CO1	Understand and classify different textile fibres.
CO2	Understand the cultivation/ manufacturing, synthesis and processing of different natural and synthetic fibres.
CO3	Apply and relate properties of fibres and its blends to the specific end uses for a variety of applications
CO4	Build on the knowledge gained and to relate and apply it to various recent developments in the field of textile fibres

Sr. No.	Course Content	Hours
1.	**A. Introduction to Textile Fibres** i. Classification of textile fibres (Natural and Synthetic) ii. Introduction to polymerization and molecular arrangement of fibres **B. Brief study of the cultivation/manufacturing processes, properties and uses of the following major fibres (Natural)** i. Cellulosic fibres (Cotton, Jute, Linen) ii. Protein fibres (Wool, Silk) **C. Brief study of Source, properties and end uses of Minor Fibres (Natural)** i. Cellulosic Fibres: Hemp, Pina, Kapok, Banana, Lotus silk ii. Protein Fibres: Mohair, Spider silk, Angora	**15**
2.	**A. Brief study of the cultivation/manufacturing processes, properties and uses of the following major fibres (Regenerated/Synthetic)** i. Regenerated: Viscose Rayon, Modal, Casein, Zein	**15**

	ii. Synthetic: Nylon, Polyester, Acrylic **B. Brief study of Source, properties and end uses of Minor Fibres (Manmade/Synthetic)** i. Elastomeric, Metallic, Glass, Carbon **C. Study of blends – blending and its advantages, common blends and end uses** **i.** Terrycot **ii.** Terryviscose **iii.** Terrywool	

References:

Collier, B. J. & Phyllis, G. T. (2001). *Understanding Textiles*. New Jersey: Prentice Hall.
Corbman, B. P. (1985). *Textiles: Fibre to Fabric*. (6 Ed.) New York: Gregg Division/McGraw Hill
Gohl, L.P.G. & Velinsky L.D. (2005). *Textile Science* (2 Ed.) New Delhi: CBS Publishers and Distributors.
Hollen, N., Saddler, J., Langford, A.L. & Kadolf, S.J. (1988). *Textiles* (6 Ed). New York: Macmillan.
Joseph, M.L. (1972). *Introductory Textile Science* (2 Ed.) New York: Holt, Rinehart and Winston.
Joseph, M.L. (1975). *Essentials of Textiles*. New York: Holt, Rinehart and Winston.
Needles, H. L. (2011). *Textile Fibres, Dyes, Finishes and Processes- A Concise Guide.* New Jersey: Noyes Publications.
Tortora, P.G. (1978). *Understanding Textiles*. New York: Macmillan.
Wynne, A. (1997). *Textiles – The Motivate Series*. London: Macmillan Education.

Syllabus
B.Sc. Home Science – Textile and Fashion Technology
(Semester - I)
VSC/SEC

***Note: It is important to opt for these Vocation Skill Course VSC /Skill Enhancement Course SEC from core subjects other than the Major/Minor Streams and other than the courses previously covered across as allocated in Semesters I, II, III, IV. The ratios for groups formed for the major, minor streams and optional elective courses along with the VSC/SEC will be decided on an equitable basis considering the teaching and learning workload. The number of seats for a VSC/SEC will be decided by the admission committee.**

Course Code	Course Title	Theory/ Practical	Hours	Credits
	Fashion Styling	**Practical**	**60**	**2**

Course Objectives:

The course enables learners to:

- Understand the various human body types and body shapes
- Apply the concepts in planning and styling garments for children, teenagers, young adults with different garment details.
- Create looks for children, teenagers, young adults for different occasions.

Course Outcomes:	
At the successful completion of the course, students will be able to:	
CO1	Identify different body types and body shapes.
CO2	Understand the concept of fashion styling and wardrobe styling.
CO3	To apply the knowledge gained in planning and styling using different garments and accessories.
CO4	To create looks for specific occasions as per the body types and life styles.

Sr. No.	Course Content	Hours
1.	**A. Fashion styling for Children** i. Exploring types of garments in children's wear ii. Wardrobe styling to coordinate mix-n-match and style attire to create different looks. iii. Selection of fashion accessories with suitable footwear/head-gears/scarves/ties/belts/bows/sashes/hairdos/jewelry, etc. iv. Dressing up for specific occasion (sports/picnics/playwear as per children's body types and lifestyles) for comfort and safety v. Selection of garments and fashion accessories for dressing up of the specially abled children **B. Fashion styling for Teenagers** i. Exploring types of garments in teenage wear ii. Wardrobe styling to coordinate mix-n-match and style attire to create different looks. iii. Selection of fashion accessories with suitable footwear/head-gears/scarves/ties/belts/bows/sashes/hairdos/jewelry, etc. iv. Dressing up for specific occasion (sports/picnics/casual/playwear as per different body types and lifestyles) for comfort and aesthetics. v. Selection of garments and fashion accessories for dressing up of the specially abled teenagers.	**15**

2.	**A. Fashion styling for Young Adults (Men)** i. Understanding the body types and body shapes ii. Exploring types of garments in young adults (men) wear iii. Wardrobe styling to coordinate mix-n-match and style attire to create different looks. iv. Selection of fashion accessories with suitable footwear/head-gears/scarves/ties/belts/bows/sashes/hairdos/jewelry, etc. v. Dressing up for specific occasion (formal/casual/party/ resort/athleisure/outdoor activities/traditional occasions as per different body types and lifestyles). vi. Selection of garments and fashion accessories for dressing up of the specially abled young adult (men) **B. Fashion styling for Young Adults (Women)** i. Understanding the body types and body shapes ii. Exploring types of garments in young adult (women) wear iii. Wardrobe styling to coordinate mix-n-match and style attire to create different looks. iv. Selection of fashion accessories with suitable footwear/head-gears/scarves/ties/belts/bows/sashes/hairdos/jewelry, etc. v. Dressing up for specific occasion (formal/casual/party/ resort/athleisure/outdoor activities/traditional occasions as per children's body types and lifestyles). vi. Selection of garments and fashion accessories for dressing up of the specially abled young adult (women)	**15**

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Carr, H. (1992). *Fashion Design and Product Development*, NewYork: John Wiley and Son Inc.

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Marshall, S. G., & Jackson, H. O. (2000). *Individuality in Clothing and Personal Appearance*. New Jersey: Prentice Hall

Tatham, C. & Seaman, J. (2003). *Fashion Designing and Drawing Course*. London: Thames and Hudson Publishers.

Semester - II

Syllabus
B.Sc. Home Science – Textile and Fashion Technology
(Semester - II)
MAJOR

Course Code	Course Title	Theory/ Practical	Hours	Credits
	Yarn Studies	**Theory**	**30**	**2**

Course Objectives:

The course enables learners to:

- Acquire knowledge of fundamental concepts and characteristics of textile yarns and their classification.
- Understand properties, production processes, and applications.

Course Outcomes:	
At the successful completion of the course, students will be able to:	
CO1	Understand and explain the classification and properties of textile yarns.
CO2	Describe and differentiate the principles and processes involved in yarn production.
CO3	Identify and differentiate different spinning techniques and their effects on yarn properties.
CO4	Analyse the relationship between yarn properties and fabric performance.

Sr. No.	Course Content	Hours
1.	**A. Introduction** i. Yarn definition ii. Classification of yarns **B. Yarn properties**	**15**
2.	**A. Yarn formation** i. Methods of traditional spinning (charkha, drop spindle) ii. Mechanical spinning (open end, Ring) iii. Chemical spinning (wet, dry, melt) **B. Yarn application in textile and apparel industry**	**15**

References:

Collier, B. J. & Phyllis, G. T. (2001). *Understanding Textiles*. New Jersey: Prentice Hall.
Corbman, B. P. (1985). *Textiles: Fibre to Fabric*. (6 Ed.) New York: Gregg Division/McGraw Hill
Gong, R. H. & Wright, R. M. (2002). *Fancy Yarns: Their manufacture and application.* Cambridge: Woodhead Publishing Ltd.
Gohl, L.P.G. & Velinsky L.D. (2005). *Textile Science* (2 Ed.) New Delhi: CBS Publishers and Distributors.
Hollen, N., Saddler, J., Langford, A.L. & Kadolf, S.J. (1988). *Textiles* (6 Ed). New York: Macmillan.
Joseph, M.L. (1972). *Introductory Textile Science* (2 Ed.) New York: Holt, Rinehart and Winston.
Joseph, M.L. (1975). *Essentials of Textiles*. New York: Holt, Rinehart and Winston.
Needles, H. L. (2011). *Textile Fibres, Dyes, Finishes and Processes- A Concise Guide.* New Jersey: Noyes Publications.
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Syllabus
B.Sc. Home Science – Textile and Fashion Technology
(Semester - II)

MAJOR

Course Code	Course Title	Theory/ Practical	Hours	Credits
	Fabric Studies	**Theory**	**30**	**2**

Course Objectives:

The course enables learners to:

- Acquire knowledge of textiles, focusing on the characteristics, properties, production processes and applications of fabrics.
- Understand fabric construction methods, performance and the role of textiles in various industries.

Course Outcomes:	
At the successful completion of the course, students will be able to:	
CO1	Understand the fundamental concepts and terminology related to fabrics.
CO2	Describe the properties and characteristics of different types of fabrics.
CO3	Understand and differentiate fabric production processes, including weaving, knitting, and non-woven techniques.
CO4	Analyse the relationship between yarn properties and fabric performance

Sr. No.	Course Content	Hours
1.	**A. Woven Fabrics** i. Yarn preparatory stages, parts of the loom ii. Steps in weaving iii. Basic weaves (plain, twill, satin and sateen)	**15**
2.	**A. Knitted Fabrics** i. Weft knitting and warp knitting ii. Properties and uses **B. Nonwoven Fabrics** i. Definition, manufacturing, properties and uses ii. Recent trends and future trend forecast of fabrics in the textile and fashion industry	**15**

References:

Collier, B. J. & Phyllis, G. T. (2001). *Understanding Textiles*. New Jersey: Prentice Hall.
Corbman, B. P. (1985). *Textiles: Fibre to Fabric*. (6 Ed.) New York: Gregg Division/McGraw Hill
Gohl, L.P.G. & Velinsky L.D. (2005). *Textile Science* (2 Ed.) New Delhi: CBS Publishers and Distributors.
Gokerneshan, N. (2004). *Fabric Structure and Analysis*. New Delhi: New age International Publishers
Hollen, N., Saddler, J., Langford, A.L. & Kadolf, S.J. (1988). *Textiles* (6 Ed). New York: Macmillan.
Joseph, M.L. (1972). *Introductory Textile Science* (2 Ed.) New York: Holt, Rinehart and Winston.
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Needles, H. L. (2011). *Textile Fibres, Dyes, Finishes and Processes- A Concise Guide.* New Jersey: Noyes Publications.
Sekhri, S. (2011). *Fabric Science*. New Delhi: PHI Learning Private Ltd.
Tortora, P.G. (1978). *Understanding Textiles*. New York: Macmillan.
Vidyasagar, P.V. (1998). *Handbook of Textiles*. New Delhi: Mittal Publications.
Wynne, A. (1997). *Textiles – The Motivate Series*. London: Macmillan Education.

Syllabus
B.Sc. Home Science – Textile and Fashion Technology
(Semester - II)
VSC/SEC

***Note: It is important to opt for these Vocation Skill Course VSC /Skill Enhancement Course SEC from core subjects other than the Major/Minor Streams and other than the courses previously covered across as allocated in Semesters I, II, III, IV. The ratios for groups formed for the major, minor streams and optional elective courses along with the VSC/SEC will be decided on an equitable basis considering the teaching and learning workload. The number of seats for a VSC/SEC will be decided by the admission committee.**

Course Code	Course Title	Theory/ Practical	Hours	Credits
	Product Development	**Practical**	**30**	**2**

Course Objectives:

The course enables learners to:

- Gain knowledge and skills to ideate and design textile products
- Develop prototypes of the designed products

Course Outcomes:	
At the successful completion of the course, students will be able to:	
CO1	Understand user centric product development parameters
CO2	Utilise different tools and equipment for sewing
CO3	Apply the concepts of sewing and surface embellishment for product development
CO4	Create products based on user centric product development parameters

Sr. No.	Course Content	Hours
1.	A. User Centric Product development Parameters: Utility, Design, Functionality and Aesthetics B. Use and care of sewing equipment; Preparing woven fabrics for cutting: straightening and blocking of fabrics; Concept of grain lines C. Surface embellishment i. Embroidery ii. Fabric painting iii. Stencil printing D. Drafting and construction of Tote Bag/Lunch Bag/Sling bag	**15**
2.	A. Drafting and construction of Sanitary Pouch B. Drafting and construction of Makeup Pouch	**15**

References:

Anand, M.R. (1965). *Textiles & Embroideries of India.* Bombay: Marg Publication.

Chattopadhyay, K. (1977). *Indian Embroidery*. New Delhi: Wiley Eastern Ltd.

Gilroy, D. (2023). *Fashion Bags and Accessories: Creative Design and Production*, Laurence King Publishing.

Frings, G. S. (1996). *Fashion from Concept to Consumer*. (5 Ed.). New Jersey: Prentice Hall.

Meadows, C. (2014). *Know Your Fashion Accessories*. Bloomsbury Publishing

QUESTION PAPER PATTERN
(External and Internal)
B.Sc. SEMESTER I/II/III/IV/V/VI

Evaluation for Theory (4 Credits for 100 Marks)

CONTINUOUS INTERNAL EVALUATION (planned as per the need of the course)	**Marks**
Class participation/Quiz/Review of literature and guided discussions/Q&A sessions	20
Class tests/PPT Presentations and relevant planned assignments	20
Total Marks for Internal Assessment	**40**
SEMESTER-END THEORY EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 – Unit 1	12
Question 2 – Unit 2	12
Question 3 – Unit 3	12
Question 4 – Unit 4	12
Question 5 – From Multiple Units	12
Total Marks for Semester End Examination	**60**

Evaluation for Theory (2 Credits for 50 Marks)

CONTINUOUS INTERNAL EVALUATION (planned as per the need of the course)	**Marks**
Class participation/Quiz/Review of literature and guided discussions/Q&A sessions	10
Class tests/PPT Presentations and relevant planned assignments	10
Total Marks for Internal Assessment	**20**
SEMESTER-END THEORY EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 – Unit 1	10
Question 2 – Unit 2	10
Question 3 – From Multiple Units	10
Total Marks for Semester End Examination	**30**

Evaluation for Practical (2 Credits for 50 Marks)

CONTINUOUS INTERNAL EVALUATION (planned as per the need of the course)	**Marks**
Class Participation/Internal Assessment during laboratory work/experiments/practical tasks	10
Journal/Portfolio/Presentation/Reports/Case papers/Assignments	10
Total Marks for Internal Assessment	**20**
SEMESTER-END PRACTICAL EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Journal/Portfolio/Report/Viva-Voce	10
Total Marks for Semester End Examination	**30**

Question Paper Pattern (NEP Syllabus)

THEORY EXAMINATION

Marks: 30	**1 Hour**
Upto 50% choice to be given within each Question. **Questions may be divided into sub questions as a, b, c….** **Allocation of marks depends on the weightage of the topics in the units; no sub-question should be of 1 mark or less**	
Q1 Unit 1	10 marks
Q2 Unit 2	10 marks
Q3 Mix of Unit 1 and 2	10 marks
TOTAL	**30 Marks**

Marks: 60	**2 Hours**
Up to 50% choice to be given within each Question. **Questions may be divided into sub questions as a, b, c….** **Allocation of marks depends on the weightage of the topics in the units; no sub-question should be of 2 marks or less**	
Q1 Unit 1	12 marks
Q2 Unit 2	12 marks
Q3 Unit 3	12 marks
Q4 Unit 4	12 marks
Q5 Mix of all units	12 marks
TOTAL	**60 Marks**

PRACTICAL EXAMINATION

Marks: 30	**2 Hours**
Q1 Unit 1	10 Marks
Q2 Unit 2	10 Marks
Journal/Portfolio/Report/Viva-Voce	10 Marks
TOTAL	**30 Marks**

Letter Grades and Grade Points

Semester GPA/ Program CGPA Semester/ Program	% of Marks	Alpha-Sign/ Letter Grade Result	Grading Point
9.00 - 10.00	90.0 – 100	O (Outstanding)	10
8.00 - < 9.00	80.0 - < 90.0	A+ (Excellent)	9
7.00 - < 8.00	70.0 - < 80.0	A (Very Good)	8
6.00 - < 7.00	60.0 - < 70.0	B+ (Good)	7
5.50 - < 6.00	55.0 - < 60.0	B (Above Average)	6
5.00 - < 5.50	50.0 - < 55.0	C (Average)	5
4.00 - < 5.00	40.0 - < 50.0	P (Pass)	4
Below 4.00	Below 40.0	F (Fail)	0
Ab (Absent)	-	Ab (Absent)	0

Appendix B

Justification for B.Sc. Home Science – Textile and Fashion Technology

1.	I	The syllabus for B.Sc. Home Science – Textile and Fashion Technology formulated with great care in accordance with the National Education Policy (NEP 2020). The program aims at imparting technical knowledge and hands-on skills. It enables learners to acquire fundamental knowledge and skills that are life-oriented, career-oriented and community- oriented, towards building a profession for self-growth and societal welfare. As the specialized fields of industry and education is continuously evolving and the Indian market can expand nationally and globally, this program will empower students through skill-building and knowledge enhancement to meet our nations and global needs. This course has been planned with a foresight into the increasing demand for practical knowledge and skills required in the specific industry of expertise and specialization. It will provide gainful employment opportunities in the ever-expanding technology-driven industry. It is an excellent blend of theory and practical and it has special relevance to specific industries with fundamental knowledge and experience in entrepreneurship skills, fieldwork, rural camp, internship, industrial visits, computer-aided technologies, marketing and skills in the areas of Home Science. Value Education is integral to the curriculum rooting some basic concepts of subjects into Indian Knowledge System (IKS). There are core areas that include theoretical knowledge and practical skill sets training along with vocation based skills with ample opportunities for ability and skill enhancement. It aims at building and nurturing learner's personality as responsible citizens competent with language and intuitive, proactive, positive attitudes, who can bring about a change in society. The program is designed to train students with job relevant skills through laboratory work, on-the-job training and apprenticeship in sustainable start-ups and entrepreneurial ventures, it enables the students to find career paths in the relevant industries research centers NGOs, schools, hospitals, hotels etc. The curriculum is supplemented with extension work and educational trips for experiential learning. The curriculum addresses an understanding of Indian Knowledge System pertaining to traditional culture and heritage and its relation to traditional concepts and practices. It fosters appreciation through multicultural sensitivity. Research and field projects is included as an essential component of the program to develop an innovative and scientific temper. In addition to this, students are encouraged to undertake industry- and socially-relevant field projects and research projects. They are also motivated to participate in research competitions at various levels, publish research findings and engage in networking and collaboration.
2.	Whether the UGC has recommended the course:	Yes
3.	Whether all the courses have commenced from the academic year 2023-24	No
4.	The courses started by the Universityare self-financed, whether adequate number of eligible permanent faculties are available?	Adequate eligible permanent faculty and CHB faculty to be appointed for vacant posts till posts sanctioned
5.	To give details regarding the duration of the Course and is it possible to compress the course?	No

6.	The intake capacity of each course and no. of admissions given in the current academic year:	200
7.	Opportunities of Employability/ Employment available after undertaking these courses	The program has multi-faceted dimensions of design and technical aspects of Home Science. Students have ample employment and entrepreneurial opportunities on successful completion and graduation from **B.Sc. Home Science - Textile and Fashion Technology** are well placed in textile manufacturing industries, apparel merchandising units, fashion and export houses, design studios, NGOs, craft centres, as professionals for quality assurance, HR personnel, fashion designers, costume stylists, visual merchandisers, fashion media experts, retail and production managers, computer aided designing professionals, academicians and self-employment. Several students also learn skills to begin their own start-ups or engage in entrepreneurship.

Sign of the BOS Chairperson
Name of the Chairperson:
Prof. Dr. Vishaka Ashish Karnad

Sign of the Offg. Associate Dean
Name of the Associate Dean
Name of the Faculty

Sign of the Offg. Dean
Name of the Offg. Dean
Name of the Faculty