

University of Mumbai

वेबसाईट - mu.ac.in

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विद्याविषयक प्राधिकरणे
सभा आणि सेवा विभाग(ए.ए.एम.एस)
कम नं. १२८ एम.जी.रोड, फोर्ट,
मुंबई - ४०० ०३२
टेलिफोन नं - ०२२ - ६८३२००३३

(नॅक पुनर्मूल्यांकनाद्वारे ३.६५ (सी.जी.पी.ए.) सह अ++ श्रेणी
विद्यापीठ अनुदान आयोगाद्वारे श्रेणी १ विद्यापीठ दर्जा)

क.वि.प्रा.स.से./आयसीडी/२०२५-२६/३७

दिनांक : २७ मे, २०२५

परिपत्रक:-

सर्व प्राचार्य/संचालक, संलग्नित महाविद्यालये/संस्था, विद्यापीठ शैक्षणिक विभागांचे संचालक/ विभाग प्रमुख यांना कळविण्यात येते की, राष्ट्रीय शैक्षणिक धोरण २०२० च्या अमलबजावणीच्या अनुषंगाने शैक्षणिक वर्ष २०२५-२६ पासून पदवी व पदव्युत्तर अभ्यासक्रम विद्यापरिषदेच्या दिनांक २८ मार्च २०२५ व २० मे, २०२५ च्या बैठकीमध्ये मंजूर झालेले सर्व अभ्यासक्रम मुंबई विद्यापीठाच्या www.mu.ac.in या संकेत स्थळावर NEP २०२० या टॅब वर उपलब्ध करण्यात आलेले आहेत.

मुंबई - ४०० ०३२
२७ मे, २०२५


(डॉ. प्रसाद कारडे)
कुलसचिव

क.वि.प्रा.स.से.वि/आयसीडी/२०२५-२६/३७ दिनांक : २७ मे, २०२५
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4	The Director, Board of Examinations and Evaluation, dboee@exam.mu.ac.in
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6	The Director, Department of Information & Communication Technology, director.dict@mu.ac.in

As Per NEP 2020
University of Mumbai



Title of the program
Revised Syllabus for

A-	P.G. Diploma in Home Science – Textile and Fashion Technology	}	2023 – 24
B-	M.Sc. (Home Science – Textile and Fashion Technology) (Two Years)		
			-
C-	M.Sc. (Home Science – Textile and Fashion Technology) (One Year)		2027 – 28

Syllabus for
Semester I & II
Ref: GR dated 16th May, 2023 for Credit Structure of P.G.
(Modified With Effect from the Academic Year 2025-2026)

University of Mumbai



(As per NEP 2020)

Sr. No.	Heading	Particulars	
1	Title of program O: _____A	A	P.G. Diploma in Home Science – Textile and Fashion Technology
	O: _____B	B	M.Sc. (Home Science – Textile and Fashion Technology) (Two-Years)
	O: _____C	C	M.Sc. (Home Science – Textile and Fashion Technology) (One-Year)
2	Eligibility O: _____A	A	For being eligible the learner must have passed degree in any of the following specializations • B.Sc. Home Science in Textile and Fashion Technology - OR • B.Sc. Home Science in Textile and Clothing/Clothing and Textile - OR • B.Sc. Fashion and Clothing - OR • B.Tech. in Textile Technology/ Apparel Technology/ Textile Engineering / Fibre/s and Textile Processing Technology - OR • B. Sc. in General Home Science - OR • B.Sc. /B.A. Home Science or any other specialization - OR • B.Sc. in Family and Community Science - OR

			● B.Sc. in Composite Science OR ● B. Sc. Biological Sciences OR ● B. Sc. Chemistry OR ● B. Des. from any Design stream OR ● B.Sc. Home Economics OR ● B.Sc./ B.A. Home Ecology OR ● B.Sc. Consumer Studies OR ● B.Voc. (Textile Design, Fashion Design, Apparel Design and related field)
	O: _____B	B	For being eligible the learner must have passed degree in any of the following specializations ● B.Sc. Home Science in Textile and Fashion Technology OR ● B.Sc. Home Science in Textile and Clothing/Clothing and Textile OR ● B.Sc. Fashion and Clothing OR ● B.Tech. in Textile Technology/ Apparel Technology/ Textile Engineering / Fibre/s and Textile Processing Technology OR ● B. Sc. in General Home Science OR ● B.Sc. /B.A. Home Science or any other specialization OR ● B.Sc. in Family and Community Science OR ● B.Sc. in Composite Science OR

			• B. Sc. Biological Sciences OR • B. Sc. Chemistry OR • B. Des. from any Design stream OR • B.Sc. Home Economics OR • B.Sc./ B.A. Home Ecology OR • B.Sc. Consumer Studies OR • B.Voc. (Textile Design, Fashion Design, Apparel Design and related field)
	O: _____C	C	Graduate with 4-year U.G. Degree (Honours / Honours with Research) with Specialization in the concerned subject or equivalent academic level 6.0 OR A graduate with four years U.G. Degree programme with maximum credits required for the award of Minor degree can take up the Postgraduate programme in Minor subject, provided the student has acquired the required number of credits as prescribed by the concerned Board of Studies.
3	Duration of programme R: _____	A	1 Year
		B	2 Years
		C	1 Year
4	R: _____ Intake Capacity	10	
5	R: _____ Scheme of Examination	NEP 50% Internal 50% External, Semester End Examination Individual Passing in Internal and External Examination	

6	Standards of Passing R: _____	40%	
7	Credit Structure Sem I & II R: IMP – 80A	Attached herewith	
8	Semesters	A	Semester I & II
		B	Semester I, II, III & IV
		C	Semester I & II
9	Programme Academic Level	A	6.0
		B	6.5
		C	6.5
10	Pattern	Semester	
11	Status	New	
12	To be implemented from the Academic Year Progressively	A	2023 – 2024
		B	
		C	2027 – 2028

Sd/-

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Chairman
Dr. Mira Desai
Ad-hoc Board of
Studies in
Home Science**

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Dr. C.A.Chakradeo
Faculty of
Interdisciplinary
Studies**

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**Sign of the
Offg. Associate Dean
Dr. Kunal Ingle
Faculty of
Interdisciplinary
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Offg. Dean
Prof. A. K. Singh
Faculty of
Interdisciplinary
Studies**

Preamble

1) Introduction

The textile sector and fashion industry play a very significant role in the Indian economy. The industry comprises traditional textiles that are a part of our rich and diverse cultural heritage as well as contemporary textile and apparel production. This industry contributes significantly to the country's exports and is one of the largest employment generators in India, providing direct and indirect employment. Against this background, the college and the University of Mumbai saw the need for a special cadre of textile and fashion related specialists, and in 1976, started the Master's Program in Home Science (in this sector, at that time, was called Textiles and Clothing). As this industry is continuously evolving and the Indian market has the opportunity to stake an even greater share in the international market, the current Master's programme **M.Sc. (Home Science) specializing in Textile and Fashion Technology** will empower students through skill building, knowledge generation and dissemination, so as to meet the country's and global needs and challenges.

The programme is an excellent blend of theory and practical and it has special relevance to Textile, Apparel and Fashion industries with advanced knowledge and experience in entrepreneurship skills, fieldwork, rural camp, internship, industrial visits, computer-aided designing, marketing and skills in textile and fashion technology related areas. It is designed to impart knowledge and skills that are life-oriented, career-oriented and community-oriented.

It includes mandatory courses, elective courses, practical and extensive research and on the job field training. A student-centric and participatory approach enhances the teaching learning process. The core areas include theoretical knowledge of Fibre Science, Colouration and Finishing, Marketing and Merchandising, Entrepreneurship, Management and Business Administration, Intellectual Property Rights, Garment Production Technology, Global Fashion Trend Forecasting, Technical Textiles.

The following are the key areas for training students in practical skills for example various areas of Fashion and Textile Designing, Pattern Making and Garment Construction, Product Development, Home Textile Designing, Draping, Women's Wear, Men's Wear, Accessory Development, World Textile Embroideries and Textile Crafts, Costume Styling, Textile Testing and Quality Assurance. The practical course on Alternative Health Strategies helps students to build and sustain their mental and physical wellness, thus contributing to the holistic value of the programme.

The programme offers a mandatory component on research methods and statistics to hone their research skills that can be further applied for their research project work.

Courses of special interest and aptitude are offered as electives namely Fashion Photography and Videography, Fashion Writing, Surface Embellishment Techniques, Fashion Illustration, CAD for Apparel & Home Products.

The programme is designed to train students with industry relevant skills through laboratory work, on-the job training and apprenticeship in textile testing laboratories, sustainable start-ups and entrepreneurial ventures with NGOs and artisans. The curriculum is supplemented with Extension Work and Educational Trips for Experiential Learning.

The scheme for evaluation and examination includes Internal Evaluation and Semester End Examination ensuring continuous effectiveness in teaching and learning. The Internal Evaluation promotes the development of soft skills and ensures participation by students throughout in the education process. Completion of one MOOC course in a year has been included in the internal evaluation.

In addition to the aforementioned, students are encouraged to undertake industry-and socially-relevant research projects. They are also motivated to participate in research competitions at various levels, publish research findings and engage in networking and collaboration.

2) Aims and Objectives:

- i. To impart the basic principles, knowledge and skills of textile science for its systematic application in the field of fibres, dyes, finishes, fabrics and apparel used in the textile, apparel and fashion industry.
- ii. To familiarize students with the various theoretical and practical aspects of the industry towards designing and developing textile and fashion products. This entails various aspects of creative designing, product development, testing, quality assurance, management, marketing, merchandising, emphasizing sustainability, innovation and use of ICT and CAD.
- iii. To encourage students to work in conjunction with relevant textile and apparel industries, gaining a deeper insight into the subjects of textile and fashion technology through experiential learning, within laboratories, crafts centres and on the field.
- iv. To provide students with opportunities to conduct collaborative research with testing laboratories, craft centres and NGOs, upholding ethical practices and intellectual property rights.
- v. To foster entrepreneurial aptitude by providing training and opportunities to develop suitable skillsets.

3) Learning Outcomes/Programme Outcomes:

After successful completion of the programme, the student will be able to:	
PO1	Demonstrate extensive knowledge of fibres, yarns, fabrics and apparel and apply the principles in technical aspects of textiles and the discipline of fashion.
PO2	Express and reason out ideas, concepts, and scientific knowledge effectively; orally and in writing with the use of appropriate media technology for example, creating thematic presentations, mood-boards, product lines and systematic creative processes and outputs.
PO3	Analyze and evaluate evidences, arguments, claims, and beliefs on the basis of scientific observations; identify logical limitations and draw conclusions from quantitative / qualitative data; evaluate historic textiles and costumes, global fashion trends, innovative design and prototype development.
PO4	Identify and analyze problems by applying core concepts of the discipline to solve problems in real time for inculcating values of sustainability.
PO5	Present and defend original research using the concepts of research methodology and statistics to thrust areas of textile and fashion technology.
PO6	Collaborate effectively with all the stakeholders to create, develop and exchange knowledge for the benefit of the society.
PO7	Apply advanced and specialized skills of the discipline, to creatively and critically evaluate and seek solutions to current issues working on process improvisation, innovative product development and product enhancement.
PO8	Use various CAD CAM technologies, digital platforms and social media effectively to design, produce and present ideas.
PO9	Practice proactive, self-directed learning and act independently in planning and executing projects which involve collaboration with testing laboratories, NGOs, craft centres and with industries.
PO10	Demonstrate an understanding of the Indian Knowledge System pertaining to tradition, culture and heritage and its relation to textiles and costumes, handlooms, handicrafts, artisans and their craftsmanship and foster appreciation through multicultural sensitivity.
PO11	Inculcate awareness and attitudes to make ethical judgments in producing original research through honesty and integrity and to promote ethical behavior in every aspect from design thinking to the ultimate consumption as well as integrating circularity, and encourage originality and uniqueness.
PO12	Develop comprehensive skills of effective communication, business administration and management for understanding group dynamics and team building. This is enabled through active participation, strengthening of relationships, creating synergy in groups and attaining goals in an adaptive environment.
PO13	Develop universal human value system and maintain a holistic learning culture to renew self-motivation, recognize personal interests and improve personal and professional skills in all stages of life.

4) Any other point (if any)

-NA-

5) CREDIT STRUCTURE OF THE PROGRAMME (SEMESTER – I)

(Table as per Parishishta 1 with sign of HOD and Dean)

R: IMP – 80A

Parishishta – 1

Post Graduate Programmes in University

- P.G. Diploma in Home Science – Textile and Fashion Technology
- M.Sc. (Home Science - Textile and Fashion Technology) (Two Years)

B.Sc. (Hons) Science – Textile and Fashion Technology) (Two Years)									
Year (2 Yr)	Level	Sem. (2 Yr)	Major		RM	OJT /	RP	Cum. Cr.	Degree
			Mandatory*	Electives (Any one)					
I	6.0	Sem I	<u>Course 1</u> Credits 4 TFT01C1 Fibre Science Theory (4 Cr)	<u>Course 5</u> Credits 4 TFT01C5E1A Fashion Photography & Videography Theory (2 Cr) TFT01C5E1BP Fashion Photography & Videography Practical (2 Cr) OR TFT01C5E2A Fashion Writing Theory (2 Cr) TFT01C5E2BP Fashion Writing Practical (2 Cr)	<u>Course 6</u> Credits 4 TFT01C6 Research Methods in Home Science Theory (4 Cr)			22	P.G. Diploma (after 3 Year Degree)
Sem – I For P.G. Diploma & M.Sc. Year I (Two-Years)			14	4	4	-	-	22	

Note: 1. Curriculum will be enriched with Extension Work and Educational Trips for experiential learning with supplemental credits.
2. Students are required to complete one/more MOOC through any platform such as NPTEL, SWAYAM, etc. with certification for supplemental credits.

CREDIT STRUCTURE OF THE PROGRAMME (SEMESTER – II)
(Table as per Parishishta 1 with sign of HOD and Dean)

R: IMP – 80A

Post Graduate Programmes in University

- **P.G. Diploma in Home Science – Textile and Fashion Technology**
- **M.Sc. (Home Science - Textile and Fashion Technology) (Two Years)**

Exit option: P.G. Diploma (44 Credits) after Three Year UG Degree									
Year (2 Yr P.C.)	Level	Sem. (2 Yr)	Major		RM	OJT / FP	RP	Cum. Cr.	Degree
			Mandatory*	Electives (Any one)					
I	6.0	Sem II	<u>Course 1</u> Credits 4 TFT02C1A Global Fashion Theory (2 Cr) TFT02C1B Trend Forecasting Theory (2 Cr)	<u>Course 5</u> Credits 4 TFT02C5E1A Surface Embellishment Theory (2 Cr) TFT02C5E1BP Surface Embellishment Practical (2 Cr) OR <u>Course 5</u> Credits 4 TFT02C5E2A Fashion Illustration Theory (2 Cr) TFT02C5E2BP Fashion Illustration Practical (2 Cr)		<u>Course 6</u> Credits 4 TFT02C6 On Job Training/ Field Project in Textile & Fashion Technology Practical (4 Cr)		22	P.G. Diploma (after 3 Year Degree)
Sem – II For P.G. Diploma & M.Sc. Year I (Two-Years)			14	4		4	-	22	
Cum. Cr. (For P.G. Diploma)			28	8	4	4	-	44	

Note: 1. Curriculum will be enriched with Extension Work and Educational Trips for experiential learning with supplemental credits.
 2. Students are required to complete one/more MOOC through any platform such as NPTEL, SWAYAM, etc. with certification for supplemental credits.
 3. Students are required to do Summer Internship as a mandatory requirement for four to six weeks (min. 120 hours) for OJT.

CREDIT STRUCTURE OF THE PROGRAMME (SEMESTER – III)
(Table as per Parishishta 1 with sign of HOD and Dean)

R _____

Post Graduate Programmes in University

- M.Sc. (Home Science - Textile and Fashion Technology) (Two Years)
- M.Sc. (Home Science - Textile and Fashion Technology) (One Year)

Exit option: P.G. Diploma (44 Credits) after Three Year UG Degree									
Year (2 Yr P.G.)	Level	Sem. (2 Yr)	Major		RM	OJT/FP	RP	Cum. Cr.	Degree
			Mandatory*	Electives (Any one)					
II	6. 5	Sem III	<u>Course 1</u> Credits 4 TFT03C1 Business Management and Administration in the Textile & Fashion Industry Theory (4 Cr)	<u>Course 5</u> Credits 4 TFT03C5E1A Computer Aided Designing for Apparel Sector Theory (2 Cr) TFT03C5E1BP Computer Aided Designing for Apparel Sector Practical (2 Cr) OR <u>Course 5</u> Credits 4 TFT03C5E2A Computer Aided Designing for Home Products Theory (2 Cr) TFT03C5E2BP Computer Aided Designing for Home Products Practical (2 Cr)			<u>Course 6</u> Credits 4 TFT03C6 Research Project (4 Cr)	22	P.G. Diploma (after 3 Year Degree)
			<u>Course 2</u> Credits 4 TFT03C2A Technical Textiles Theory (2 Cr) TFT03C2BP Textile Finishing and Testing Practical (2 Cr)						
			<u>Course 3</u> Credits 4 TFT03C3AP Pattern Making & Garment Construction for Women's Wear (Knits) Practical (2 Cr) TFT03C3BP Draping for Women's Wear (Woven & Knits) Practical (2 Cr)						
			<u>Course 4</u> Credits 2 TFT03C4P World Textile Embroideries & Textile Crafts Practical (2 Cr)						
Sem – III (For M.Sc. Degree Two Years & One Year)			14	4	-	-	4	22	

Note: 1. Curriculum will be enriched with Extension Work and Educational Trips for experiential learning with supplemental credits.

2. Students are required to complete one/more MOOC through any platform such as NPTEL, SWAYAM, etc. with certification for supplemental credits.

CREDIT STRUCTURE OF THE PROGRAMME (SEMESTER – IV)
(Table as per Parishishta 1 with sign of HOD and Dean)

R_____

Post Graduate Programmes in University

- **M.Sc. (Home Science - Textile and Fashion Technology) (Two-Years)**
- **M.Sc. (Home Science - Textile and Fashion Technology) (One-Year)**

Year (2 Yr)	Level	Sem. (2 Yr)	Major		RM	OJT/FP	RP	Cum. Cr.	Degree
			Mandatory*	Electives (Any one)					
II	6.5	Sem IV	<u>Course 1</u> Credits 4 TFT04C1A Garment Production Technology Theory (2 Cr) TFT04C1B Trends in Textile and Fashion Industry Theory (2 Cr)	<u>Course 4</u> Credits 4 TFT04C4E1P Apprenticeship - Textile Testing in Laboratories Practical (4 Cr) OR			<u>Course 5</u> Credits 4 TFT04C5 Research Project (6 Cr)	22	P.G. Diploma (After 3 Year Degree)
			<u>Course 2</u> Credits 4 TFT04C2AP Pattern Making & Garment Construction for Menswear (Knits) Practical (2 Cr) TFT04C2BP Costume Styling Practical (2 Cr)	<u>Course 4</u> Credits 4 TFT04C4E2P Apprenticeship Sustainable Start- ups and Entrepreneurial Ventures in Apparel/ Product Development with NGOs and Artisans Practical (4 Cr)					
			<u>Course 3</u> Credits 4 TFT04C3A Intellectual Property Rights in the Textile and Apparel Industry Theory (2 Cr) TFT04C3BP Alternative Health Strategies and Interventions Practical (2 Cr)						
Sem – IV (For M.Sc. Degree Two Years & One Year)			12	4	-	-	6	22	
Cum. Cr. For 1 year P.G. Degree			26	8	-	-	10	44	
Cum. Cr. For 2 year P.G. Degree			54	16	4	4	10	88	

Note: 1. Curriculum will be enriched with Extension Work and Educational Trips for experiential learning with supplemental credits.

1. Students are required to complete one/more MOOC through any platform such as NPTEL, SWAYAM, etc. with certification for supplemental credits.

Note: * The number of courses can vary for totaling 14 Credits for Major Mandatory Courses in a semester.

Syllabus: M.Sc. (Home Science – Textile & Fashion Technology)

Semester I

Level 6.0

Cumulative Credits: 22

Mandatory Course (Credits)

COURSE CODE	COURSE NO.	CREDITS	COURSE TITLE	THEORY/ PRACTICAL
TFT01C1	Course 1	4	Fibre Science	Theory
TFT01C2A	Course 2 A	2	Textile Finishing	Theory
TFT01C2B	Course 2 B	2	Textile Colouration	Practical
TFT01C3A	Course 3 A	2	Pattern Making & Garment Construction for Women's Wear (Woven)	Practical
TFT01C3B	Course 3 B	2	Home Textile - Designing & Product Development	Practical
TFT01C4	Course 4	2	Descriptive Statistics in Home Science	Theory
TFT01C5E1A & TFT01C5E1BP OR TFT01C5E2A & TFT01C5E2BP	Course 5 (Elective)	2	Fashion Photography & Videography	Theory
		2	Fashion Photography & Videography	Practical
		2	Fashion Writing	Theory
		2	Fashion Writing	Practical
TFT01C6	Course 6	4	Research Methods in Home Science	Theory

Note:

1. Curriculum will be enriched with Extension Work and Educational Trips for experiential learning with supplemental credits.
2. Students are required to complete one/more MOOC through any platform such as NPTEL, SWAYAM, etc. with certification for supplemental credits.

Mandatory Course (Credits)

Course Code	Course No.	Credits	Course Title	Theory/ Practical
TFT02C1A	Course 1 A	2	Global Fashion	Theory
TFT02C1B	Course 1 B	2	Trend Forecasting	Theory
TFT02C2	Course 2	4	Global Textiles & Apparel: Marketing and Merchandising	Theory
TFT02C3AP	Course 3 A	2	Pattern Making & Garment Construction for Men's Wear (Woven)	Practical
TFT02C3BP	Course 3 B	2	Accessory Development	Practical
TFT02C4	Course 4	2	Advanced Statistics in Home Science	Theory
TFT02C5E1A & TFT02C5E1BP OR TFT02C5E2A & TFT02C5E2BP	Course 5 (Elective)	2	Surface Embellishment	Theory
		2	Surface Embellishment	Practical
		2	Fashion Illustration	Theory
		2	Fashion Illustration	Practical
TFT02C6	Course 6	4	On-Job Training/ Field Project in Textile and Fashion Technology	Practical

Note:

1. Curriculum will be enriched with Extension Work and Educational Trips for experiential learning with supplemental credits.
2. Students are required to complete one/more MOOC through any platform such as NPTEL, SWAYAM, etc. with certification for supplemental credits.
3. Students are required to do Summer Internship as a mandatory requirement of four weeks with supplemental credits.

Mandatory Course (Credits)

Course Code	Course No.	Credits	Course Title	Theory/ Practical
TFT03C1	Course 1	4	Business Management and Administration in the Textile & Fashion Industry Theory	Theory
TFT03C2A	Course 2 A	2	Technical Textiles	Theory
TFT03C2BP	Course 2 B	2	Textile Finishing and Testing	Practical
TFT03C3AP	Course 3 A	2	Pattern Making & Garment Construction for Women's Wear (Knits)	Practical
TFT03C3BP	Course 3 B	2	Draping for Women's wear (Woven & Knits)	Practical
TFT03C4P	Course 4	2	World Textile Embroideries & Textile Crafts	Practical
TFT03C5E1A & TFT03C5E1B OR TFT03C5E2A & TFT03C5E2B	Course 5 (Elective)	2	Computer Aided Designing for Apparel Sector	Theory
		2	Computer Aided Designing for Apparel Sector	Practical
		2	Computer Aided Designing for Home Products	Theory
		2	Computer Aided Designing for Home Products	Practical
TFT03C6	Course 6	4	Research Project	Practical

Note:

1. Curriculum will be enriched with Extension Work and Educational Trips for experiential learning with supplemental credits.
2. Students are required to complete one/more MOOC through any platform such as NPTEL, SWAYAM, etc. with certification for supplemental credits.

Mandatory Course (Credits)

Course Code	Course No.	Credits	Course Title	Theory/ Practical
TFT04C1A	Course 1 A	2	Garment Production Technology	Theory
TFT04C1B	Course 1 B	2	Trends in Textile and Fashion Industry	Practical
TFT04C2A	Course 2 A	2	Pattern Making & Garment Construction for Menswear (Knits)	Practical
TFT04C2B	Course 2 B	2	Costume Styling	Practical
TFT04C3A	Course 3 A	2	Intellectual Property Rights in the Textile and Apparel Industry	Theory
TFT04C3B	Course 3 B	2	Alternative Health Strategies and Interventions	Practical
TFT04C4E1P	Course 4 Elective	4	Apprenticeship - Textile Testing in Laboratories	Practical
TFT04C4E2P			Apprenticeship - Sustainable Start-ups and Entrepreneurial Ventures in Apparel/Product Development with NGOs and Artisans	Practical
TFT04C5RP	Research Project	6	Research Project	Practical

Note:

1. Curriculum will be enriched with Extension Work and Educational Trips for experiential learning with supplemental credits.
2. Students are required to complete one/more MOOC through any platform such as NPTEL, SWAYAM, etc. with certification for supplemental credits.

Syllabus:

**P.G. Diploma in Home Science – Textile & Fashion
Technology**

M.Sc. (Home Science – Textile & Fashion Technology)

(Semester I)

Semester I: Mandatory Courses

M.Sc. (Home Science – Textile & Fashion Technology)**Level- 6.0****(Under NEP)****Semester- I****Major (Mandatory Course)**

Course Code	Course Title	Theory / Practical	Credits	Hours
TFT01C1	FIBRE SCIENCE	Theory	4	60

Course Objectives:

The course will enable the students to study:

- Morphology, chemical constitution and manufacturing processes of natural fibres
- Physical and chemical properties and uses of natural fibres
- Raw materials used and the manufacturing processes of regenerated and synthetic fibres
- Physical and chemical properties and uses of regenerated and synthetic fibres
- Ecological issues that arise during cultivation and/or rearing and/or manufacturing of natural, regenerated and synthetic fibres and recent developments in the field of these fibres

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Remember and understand the morphology, chemical constitution and manufacturing processes of cellulosic, protein fibres, regenerated and synthetic fibres
CO2	Recall and apply this knowledge for understanding the chemical reactions of these natural fibres with various chemical reagents
CO3	Analyse and assess the physical and chemical effects of various factors/reagents on these natural, regenerated and synthetic fibres
CO4	Use the knowledge already gained to evaluate the ecological concerns in the manufacturing and processing of natural, regenerated and synthetic fibres
CO5	Extend the knowledge to understand the recent developments in the field of natural, regenerated and synthetic fibres

Syllabus:

Unit No.	Course Content	Hours
Unit I	Natural cellulosic fibres i. Chemistry of cellulose: Chemical composition and constitution ii. Reactivity of different hydroxyl groups, hydrolysis and oxidation of cellulose iii. Physical morphology structure, properties, uses and ecological concerns of: a. Cotton b. Jute	15
Unit II	Natural protein fibres i. Chemistry of proteins- chemical composition and constitution of proteins ii. Physical morphology, structure, properties uses and ecological concerns of : a. Wool b. Silk	15

Unit III	Manmade fibres: Regenerated fibres - Regenerated cellulosic fibres Raw materials, manufacturing process, physical, chemical properties uses and ecological concerns in manufacturing of: - Viscose rayon - Polynosic - Modified cellulosic fibres - Raw materials, manufacturing process, physical, chemical properties and ecological concerns in manufacturing of Acetate rayon - Other regenerated fibres and other recently developed fibres: - Lyocell & Modal, Zein, Casein, Azlon	15
Unit IV	Manmade fibres: Synthetic fibres - Synthesis of raw material, manufacturing process, properties and ecological concerns in manufacturing major synthetic fibres - Polyamides - Polyester - Acrylic - Blends currently used - Other synthetic fibres currently in use: - Aramids, Elastomers, Carbon, etc.	15
Total Hours		60

References:

- Carter, E. M. (1971). Essentials of Fibre chemistry. Marcel Dekker.
- Chakravarty, R. R. (1972). A glimpse on the chemical technology of textile fibres. The Canton Press.
- Chapman, C. B. (1972). Fibres. Butterworths and Company.
- Cook, J. G. (1984). Handbook of textile fibres. (5th Ed.) Duram Merrow.
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- Grayson, M. (1984). Encyclopedia of textile, Fibre and nonwoven fabrics. John Wiley & Sons.
- Hollen, N. & Saddler, J. (1988) Textiles. (6th Ed.). Macmillan.
- Howard, L. N. (1986). Textiles: fibres, dyes, finishes and processes. Elsevier
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- Marjory, L. J. (1977). Introductory textile science. (3rd Ed.).
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- Morton, W. E. & Hearle, W. S. (1975). Physical properties of textile fibres. The Textile Institute.
- Murthy, H. V. (1987). Introduction to textile fibres. The Textile Association of India.

18. Porczynski, C. Z. & Carroll. (1961). Manual of manmade fibres. Astex Publishing.
19. Sadov, F., Korchang, M. & Matelsky A. (1973). Chemical technology of fibrous materials. MIR Publications.
20. Shenai, V. A. (1977). Textile fibres. Vol. I Sevak.
21. Steven, B. W. (1975). Fibre science. Prentice Hall.
22. Tammanna, N. S. (1973). Handbook of silk technology. Wiley Eastern.
23. Tortora, G. P. (1992). Understanding textiles. (4th Ed.) Macmillan.
24. Wynne, A. (1997). Textiles-The motivate series. Macmillan Education Ltd.

Evaluation:

4 CREDIT COURSE FOR 100 MARKS	
CONTINUOUS INTERNAL EVALUATION (CIE)	Marks
Review of literature and guided discussions	10
Class participation, Class tests	15
Quiz	10
Class Assignments (Presentations)	15
Total Marks for CIE	50
SEMESTER-END THEORY EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Question 3 - Unit 3	10
Question 4 - Unit 4	10
Question 5 – Multiple Units	10
Total Marks for Semester End Examination	50
TOTAL MARKS FOR THE COURSE	100

M.Sc. (Home Science – Textile & Fashion Technology)
Level- 6.0
(Under NEP)

Semester I

Course Code	Course Title	Theory/Practical	Credits	Hours
TFT01C2A	TEXTILE FINISHING	Theory	2	30

Course Objectives:

The course will enable the students to study the:

- Chemicals used in textile finishing
- Essential properties imparted on fabrics through finishes for varied end uses
- Recent developments in various finishing processes

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Understand and categorize the textile auxiliaries used in textile processing
CO2	Explain the various textile finishing processes
CO3	Compare and contrast the various types of surfactants and their applications
CO4	Identify and describe various textile finishes
CO5	Understand the mode of action of various textile finishes
CO6	Explain the effect of different textile finishes on various textile material
CO7	Understand the eco-concerns of the textile finishes
CO8	Identify the recent trend advancement in textile finishes

Syllabus:

Unit No.	Course Content	Hours
Unit I	I. Introduction and classification of textile auxiliaries and methods of application II. Chemical finishing processes for textile and garments III. Surfactants and soaps- Cationic, anionic and non-ionic surfactants, soaps IV. Textile and garment finishes (chemicals used, application methods, mode and mechanism of reaction) - i. Softening finish ii. Easy care / durable press finish iii. Stiffening finish iv. Finishing with enzymes	15
Unit II	I. Textile and garment finishes (chemicals used, application methods, mode and mechanism of reaction): i. Flame retardant finish ii. Anti-static finish iii. Anti-pilling finish iv. UV protection finish v. Antimicrobial and anti-fungal finish vi. Water repellent and water proof finish vii. Soil release finish viii. Non slip finish II. Eco concerns of the finishes III. Future trends in chemical finishing	15
Total Hours		30

References:

- Charan, K. (1980). Technology of laundry and toilet soaps. S. B. Publications.
- Davidson, A. and Milwidsky, B. M. (1978). Synthetic detergent. The Book Center.
- Hall, A. J. (1986). Textile finishing. American Elsevier.
- Nallankilli, G. and Jayaprakashan, S. (1997). Textile finishing. S. S. M. Publications.
- Reevco, W. A., Orake, G. K. and Perkins, R. M. (1974). Fire resistant textiles: handbook. Technomic.
- Schindler, W.D. and Hauser, P.J. (2000). Chemical finishing of textiles. Woodhead Publishing Ltd.
- Shenai, V. A. (1980). Chemistry of textile auxiliaries. Vol V. Sevak.
- Srivastava, S. B., Gupta, R. K. and Gupta, R. (1980). Household Detergents and Industrial Surfactants. Small Business.

Evaluation:

2 CREDIT COURSE FOR 50 MARKS	
CONTINUOUS INTERNAL EVALUATION	Marks
Quiz, Review of literature and guided discussions, Q&A sessions	10
Class participation, Class tests	05
Class Assignments (Presentations)	10
Total Marks for CIE	25
SEMESTER-END THEORY EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Question 3 – Multiple units	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

M.Sc. (Home Science – Textile & Fashion Technology)
Level- 6.0
(Under NEP)

Semester I

Course Code	Course Title	Theory/Practical	Credits	Hours
TFT01C2B	TEXTILE COLOURATION	Practical	2	60

Course Objectives:

The course will enable the students to study and experiment using:

- Dyes, pigments and chemicals used in textile colouration and their application on various fabrics.
- Chemical and eco-friendly methods of dyeing and printing of textiles to create various coloured effects.
- Various test standards for testing of dyed and printed textiles.
- Recent developments in various dyeing and printing processes.

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Apply different dyes and print designs on fabrics using colorants, auxiliaries and eco-friendly methods to create various effects
CO2	Comprehend industry recommended procedures for dyeing and printing on different fabric types to enhance of their aesthetic properties
CO3	Evaluate dyed and printed fabrics as per standard testing methods
CO4	Adopt scientific methods of reporting dyeing / printing procedures, subsequent to test observations and results of the properties evaluated

Syllabus:

Unit No.	Course Content	Hours
Unit I	A. Creating various fashion effects through dyeing with direct, resist and discharge styles of colouration with dyeing and printing using different classes of dyes for example direct, acid, reactive, basic, azoic, etc. with the laboratory equipment and suitable methods of exhaustion, pad-dry-cure, etc. B. Portfolio Development	30
Unit II	A. Creating fashion effects through printing using blocks, screens, digital methods, etc. B. Testing of the dyed and printed samples C. Portfolio Development	30

References:

1. Angappan, P. &Gopalkrishnan R. (1993). Textile Testing. S.S.M. Institute of Technology.
2. Burkinshaw, S. M. (1995). Chemical principles of synthetic Fibre dyeing. Blackie Academic and Professional.
3. Cegarra, J. P. and Valladperas, J. (1992).The dyeing of textile manual, the scientific bases and the techniques of application. NecovaOflito.

4. Charan, K. (1980). Technology of laundry and toilet soaps. S. B. Publications.
5. Collier B.J. (1999) Textile Testing and Analysis. New Jersey: Prentice Hall.
6. Colliner, B. J & Tortora, P. G. (2001). Understanding Textiles. (6th Ed.) Prentice Hall Inc.
7. Corbman, B. P. (1983). Textiles: Fibre to Fabric (6th Ed.) McGraw Hill.
8. D'Souza, N. (1998). Fabric Care. New Age International.
9. David, G., Snclair, Roy, S. (1989). Giles laboratory course in dyeing (4th Ed.) Society of Dyers and Colourist.
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11. Gittenger, M. (1982) Master dyers of the world. The Textile Museum.
12. Gulrajani, M. L. and Gupta, S. (1990) Wool dyeing and printing. Department of Textile Technology IIT.
13. Handbook of Textile Testing, Bureau of Indian Standards. (1990). Testing and Grading of Textile Fibres. Part 1 New Delhi: Bureau of Indian Standards
14. Handbook of Textile Testing, Bureau of Indian Standards. (1991).
15. Identification and Testing of dyestuff and Colour Fastness on Textile Materials. Part 1V New Delhi: Bureau of Indian Standards.
16. Joseph, M. L. (1986). Introductory textile science (5th Ed.) Holt, Rinehart and Winston.
17. Kadolph, Langford, Hollen & Saddler (1993). Textiles. Macmillan.
18. Koshy, T. D. (2001). Silk production and export management. A.P.H Publishing Corporation.
19. Lewis, D.M. (Ed). (1992) Wool dyeing. Society of Dyers and Colourist.
20. Marsh, J. T. (1979). Introduction to Textile Finishing. BI Publication
21. Mishra, S. P. (2020) Science and Technology of Textile Dyeing and Colouring 2nd Edition New Age International (P) Ltd Publishers.
22. Ponting, K. G. (1981).A dictionary of dyes and dyeing. Bell and Hymen Ltd.
23. Rouette, H. K. (2001). Encyclopedia of textile finishes. Berlin: Springer Verlag.
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25. Rouette, H. K. (2001). Encyclopedia of Textile Finishing. Vol I, II & III Springer.
26. Shenai, V. A. (1985). Technology of dyeing: Technology of textile processing. Vol.VI. Sevak Publication.
27. Shenai, V. A. (1985). Technology of printing: Technology of textile processing. Vol. IV. Sevak Publication.
28. Shenai, V. A. (1998) Toxicity of dyes and intermediates. Sevak Publication.
29. Shenai, V. A. (1999). Azo dyes: Facts and figures. Sevak Publication.
30. Shenai, V. A. and Saraf, N. (1991) Dictionary of textiles. Sevak Publication.
31. Shenai, V.A. (1980). Evaluation of Textile Chemicals Bombay Sevak Publication
32. Story, J. (1985). The Thames and Hudson Manual of textile dyes and fabrics. Thames and Hudson.
33. Story, J. (1985). The Thames and Hudson Manual of textile printing. Thames and Hudson.

34. Testing and Grading of Textile Fibres. (1989) Part 111 New Delhi: Bureau of Indian Standards Handbook of Textile Testing, Bureau of Indian Standards.
35. Vigo, T. L (1997).Textile processing and properties, preparation, dyeing finishing and performance. Elsevier Sciences.
36. Wynne, A. (1997). Textiles: Motivate Series. Macmillan Company.
37. Yusuf, M, & Shahid, M. (2022) Emerging Technologies for Textile Coloration 1st Edition CRC Press.

Evaluation:

2 CREDIT COURSE FOR 50 MARKS	
CONTINUOUS INTERNAL EVALUATION	Marks
Internal Assessment during laboratory work	10
Stage-wise assessment of dyed and printed samples, colour development and designs or colour effects produced on samples	05
Journal writing & Viva-Voce	10
Total Marks for CIE	25
SEMESTER-END PRACTICAL EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Journal & Viva-Voce	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

M.Sc. (Home Science – Textile & Fashion Technology)
Level- 6.0
(Under NEP)

Semester I

Course Code	Course Title	Theory /Practical	Credits	Hours
TFT01C3 A	PATTERN MAKING & GARMENT CONSTRUCTION – WOMEN’S WEAR (WOVEN)	Practical	2	60

Course Objectives:

The course will enable the students:

- To study the advanced techniques of pattern making for different styles of clothing for women.
- To identify, analyze and source different types of fabrics for particular end-uses.
- To get acquainted with the skill of handling different materials and patterns.
- To adapt constructed blocks to the given patterns and grading according to different sizes.
- To plan economical layouts of pattern pieces on fabric for cutting.
- To train students with various techniques of apparel construction.

Course Outcome:

After successful completion of the course, a student will be able to:

CO1	Interpret designs / sketches systematically and develop patterns
CO2	Explore the knowledge related to advanced techniques of pattern making and create a variety of patterns
CO3	Evaluate and identify trends in local markets through fabric sourcing to create garments
CO4	Apply the techniques of apparel making and achieve the desired design variations while creating garments
CO5	Create theme relevant boards which are essential to the design process
CO6	Create professional portfolio for interviews and other job profile

Syllabus:

Unit No.	Course Content	Hours
Unit I	I. Revision of Adult’s Basic Block, Sleeve, Torso block, Skirts, Displacements & Concealments II. Drafting of yokes, gathers, pleats for upper and lower garments III. Drafting of sleeves (Kimono, Dolman) IV. Pattern making & Garment Construction of Designer Western wear (Top / Blouse with Trousers / Culottes) V. Product and Portfolio Development	30

Unit II	I. Drafting and adapting patterns (along with draft instructions and markings) using anthropometric measurements and grading of upper and lower block	30
	II. Pattern Making & Garment Construction of Designer Indian wear (Ghaghra/Lehenga/Sharara/Gharara and Choli)	
	III. Product and Portfolio Development	
Total Hours		60

*Construction of the above garments using plackets (Kurta/double shirt placket/continuous Kurta), collars (Reversible/Chinese/ Shawl and Danton, yokes (T- / U-/Straight) and gussets (simple/ sleeve/ strip), pockets (side seam pocket/velt pocket/ bound pocket/ front pant pocket) zips (with seam/ invisible zip/ zip with fly).

*Portfolio Presentation

References:

1. Aldrich, W. (1996). Fabric Form and flat pattern cutting. Blackwell Science.
2. Armstrong, H. J (1986). Pattern making for fashion designing. Harper Collins
- Armstrong, H. (1987). Pattern making for fashion design. Harper & Row.
3. Bane, A. (1972). Flat pattern design. McGraw Hill
4. Batsford. Graff. J. L. (1976). Concepts in clothing. McGraw Hill.
5. Braddock, S. F. (1998). Techno-textiles: revolutionary fabrics for fashion and design. Thames and Hudson
6. Bradley, G. (1954). Costume design. (3rd Ed.). Searton International Textbook
7. Bray, N. (1970). Dress fitting: The basic principles of cut and fit. (5th Ed.) Crosby Lockwood and sons
8. Bray, N. (1978). More dress pattern designing. (4th Ed.). Granada, Blackwell Science.
9. Carr, H. and Latham, B. (1994). The Technology of clothing manufacture. (2nd Ed.). Blackwell Science
10. Cooklin, G. (1992). Pattern grading for women's clothes: the technology of sizing. S.P. Professional Books.
11. Cooklin, G. (1995). More patterns and grading for women's outsize. Blackwell Science
12. Dunn, L., Bailey. A. & Draper. W. (1970). Steps in clothing skills. Chas A. Bennett
13. Goulbourn, M. (1971). Introducing pattern cutting: Grading and modeling. Batsford.
- J. M. (1967). Coordinated pattern fit. Burgess Publishing
14. Littman, C, (1977). Pattern making design: Skirts and pants, Delmar
15. Minott. J. (1978). Fitting commercial patterns. Minnesota Burgess.
16. Muke, A. (1980) A French touch -1. Hermann Printing & Litho
17. Stanley. H. (1977). Modeling and flat cutting for fashion. Hutchison
18. Toledo, R. (1996). Style dictionary. Abbeville Press.

Evaluation:

2 CREDIT COURSE FOR 50 MARKS	
CONTINUOUS INTERNAL EVALUATION	Marks
Internal Assessment during laboratory work	10
Stage-wise assessment of class work of fundamentals and garments	05
Class participation, Journal writing & Viva-Voce	10
Total Marks for CIE	25
SEMESTER-END PRACTICAL EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Portfolio & Viva	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

M.Sc. (Home Science – Textile & Fashion Technology)
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(Under NEP)

Semester I

Course Code	Course Title	Theory/ Practical	Credits	Hours
TFT01C3B	HOME TEXTILES DESIGNING AND PRODUCT DEVELOPMENT	Practical	2	60

Course Objectives:

The course will enable the students:

1. To be acquainted with advanced techniques of pattern making for different products and styles of home textile products
2. To identify, analyze and select different types of fabrics for particular end-uses.
3. To be acquainted with the skill of handling different materials and patterns.

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Remember and understand the techniques of pattern making for different products and styles of homemade- ups
CO2	Understand and apply the current market trends for different home textile products
CO3	Identify different fabrics and textures and apply the knowledge and skill for making different home textile products along with the cost sheet
CO4	Adapt constructed blocks to the given patterns and grade according to different sizes.
CO5	Identify and analyze the selection of different types of fabrics for particular end-uses.
CO6	Create a portfolio relevant to home textiles

Syllabus:

Unit No.	Course Content	Hours
Unit I	I. Home Textiles Designing and Product Development for Bedroom and Living room i. Study of different brands and types of made-ups in the market ii. Study of different materials available in the market for the development of home textile products- conventional and contemporary iii. Classification, and sizing of home textile products iv. Designing, drafting, and construction of products II. Product and Portfolio Development	30

Unit II	A. Home Textiles Designing and Product Development for Kitchen and Bathroom	30
	i. Study of different brands and types of made-ups in the market ii. Study of different materials available in the market for the development of kitchen and bathroom-conventional and contemporary iii. Classification, sizing of home textile products iv. Designing, drafting and construction products	
	B. Product and Portfolio Development	

References:

1. Anna Hong, R. (1935) Home Furnishing. Wiley and Sons.
2. Chapman, and Hall, H. L. (2001) Lets home decorator, soft furnishing. Charles Letts & Co.
3. De Van and Dorothy, (1964). Introduction to home furnishing. Mac Milan Co.
4. Deshpande, R.S. (1971). Building your own home. United Book Corporation.
5. Deshpande, R.S. (1978). Modern Ideal homes for India. United Book Corporation.
6. Readers Digest, (1997). The complete book of sewing.
7. Winget, I. (1946). Textiles& their selection. Prentice-Hall, Inc.

Evaluation:

2 CREDIT COURSE FOR 50 MARKS	
CONTINUOUS INTERNAL EVALUATION	Marks
Internal Assessment during laboratory work	10
Stage-wise assessment of class work of home textile products developed	05
Class participation, Journal writing & Viva-Voce	10
Total Marks for CIE	25
SEMESTER-END PRACTICAL EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 – Unit 1	10
Question 2 – Unit 2	10
Portfolio & Viva-Voce	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

M.Sc. (Home Science – Textile & Fashion Technology)
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Semester I

Course Code	Course Title	Theory /Practical	Credits	Hours
TFT01C4	DESCRIPTIVE STATISTICS IN HOME SCIENCE	Theory	2	30

Course Objectives:

- To help students value the sine qua non role of statistics in quantitative research.
- To enable in students the skills in selecting, computing, interpreting and reporting descriptive statistics.
- To facilitate comprehension of elementary concepts in probability.
- To introduce students to a specialized statistical software such as SPSS.

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Identify the level of measurement of a variable and the corresponding suitable statistical technique to describe this variable.
CO2	Differentiate between, evaluate, and select different descriptive statistical techniques to numerically summarize data.
CO3	Identify, differentiate between, evaluate, and select different descriptive statistical techniques to graphically summarize data.
CO4	Have necessary knowledge and skills to design and conduct descriptive research studies.
CO5	Use SPSS for data entry, data management, and descriptive statistics effectively.

Syllabus:

Unit No.	Course Content	Hours
Unit I	A. Introduction and overview to statistics (i) Role of statistics in (quantitative) research (ii) Definition/changing conceptions (iii) Prerequisite concepts in mathematics (e.g., basic algebra, properties of the summation sign) B. Descriptive Statistics for summarizing ratio level variables (i) Frequencies and percentages (ii) Computing an average/measure of a central tendency Mean, median, mode(s) Contrasting the mean vs. median Computing an average when there are outliers or extreme values in the data set Robust measures of the center (5% trimmed mean; M estimators) Quartiles and percentiles (iii) Computing a measure of variability or dispersion Why? (inadequacy of the mean) Minimum value and maximum value Range	15

	Interquartile range Variance and standard deviation (iv) Discrete and continuous variables (v) Histograms and line graphs	
Unit II	A. Descriptive Statistics for summarizing nominal, ordinal and interval level variables B. Using specialized software such as SPSS (i) Data Entry (ii) Data Management (iii) Descriptive Statistics C. Probability (i) Definition (ii) Role of probability in research and statistics (iii) Elementary concepts in probability Sample space, experiment, event/outcome/element of the sample space Equally likely outcomes and the uniform probability model Stabilization of the relative frequency	15
Total Hours		30

References:

1. Bhattacharyya, G.K., & Johnson, R.A. (1977). *Statistical concepts and methods*. John Wiley. (classic)
2. Jackson, S. L. (2012). *Research methods and statistics: A critical thinking approach* (4th ed.). Wadsworth Cengage Learning.
3. Johnson, R. A., & Bhattacharyya, G. K. (2019). *Statistics: Principles and methods* (8th ed.). John Wiley.
4. Martin, W. E., & Bridgmon, K. D. (2012). *Quantitative and statistical research methods*. Jossey-Bass.
5. Kachigan, S. K. (1986). *Statistical analysis: An interdisciplinary introduction to univariate & multivariate methods*. Radius Pr.
6. Kerlinger, F. N. & Lee, H. B. (2000). *Foundations of behavioral research*. Harcourt.
7. Wheelan, C. J. (2014). *Naked statistics: Stripping the dread from the data*. W.W. Norton.

Evaluation:

2 CREDIT COURSE FOR 50 MARKS	
CONTINUOUS INTERNAL EVALUATION:	Marks
Class participation, Written Short Quizzes	10
SPSS data entry & descriptive statistical analysis assignment	5
Problem-solving Exercises (in pairs or individually) & Practice Sums (individually)	10
Total Marks for CIE	25
SEMESTER-END EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 from Unit 1	10
Question 2 from Unit 2	10
Question 3 from multiple units	5
Total Marks for the Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

SEMESTER I: Elective Courses

M.Sc. (Home Science – Textile & Fashion Technology)
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Semester I

Course Code	Course Title	Theory /Practical	Credits	Hours
TFT01C5E1A	FASHION PHOTOGRAPHY & VIDEOGRAPHY	Theory	2	30

Course Objectives:

The course will enable the students to:

- Incorporate various media for visual imagery from technical and artistic points of view
- Understand the importance of visualization and observation in Fashion Photography and Videography.

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Describe the importance of photography and videography in the field of fashion
CO2	Compare the types of photography and videography for various uses.
CO3	Transfer the concept of production technique in the project development
CO4	Define the principles of lights in the photo shoot and categorize the various components of photography in desired shoots.
CO5	Develop the production plan to create visual communication of the fashion

Syllabus:

Unit No.	Course Content	Hours
Unit I	I. Introduction to fashion photography - History of fashion photography - Types of fashion photography - Basics of Fashion and Glamour Photography - Equipment and Camera setting - Guidelines for successful Fashion Shoot. II. The role of locations, composition in photography III. Aesthetics of Photography - Definition of Lighting , Light as subject, Shadow as subject, Principles of Visualization, Types of Perspectives IV. Director of photography-meaning and function	15

Unit II	I. Introduction to Fashion Videography i. Meaning and Definition of Videography – Evolution of Videography - History of Videography ii. Types of Fashion videography iii. Cinematography and videography in fashion iv. Fashion Films II. The role of locations, composition in videography III. Lighting and lighting equipment's i. Definition of Lighting ii. Principles of Lighting iii. Light sources iv. Methods of Modifying Light IV. Post production techniques.	15
Total Hours		30

References:

1. Bill Cunningham B. (2019): *On the Street: Five Decades of Iconic Photography* Hardcover, Clarkson Potter.
2. Cutler E.P. & Tomasello, J. (2015), *Art and Fashion: Collaborations and Connections Between Icons*, Chronicle Books.
3. Duncan N.H. (1979), *The History of Fashion Photography*, Alpine Book Company.
4. Frisa, M.L. et al.,(2016). *Across Art and Fashion*, Mandragora.
5. Herschdorfer, N. (2012), *Coming Into Fashion: A Century of Photography at Conde Nast*, Prestel.
6. Kybalova, L. (1968). *Pictorial encyclopedia of fashion*. London: Hamlyn.
7. McKelvey, K. (1996) *Fashion source book*. Oxford: Blackwell Science
8. Milbank,C.R. (2015). *Fashion: A Timeline in Photographs: 1850 to Today*, Rizzoli.
9. Nast, C. and Wintour, A., (2012) *Vogue: The Editor's Eye*, Harry N. Abrams.
10. Ogawa. Y. (1990). *Colour in fashion: a guide to coordinating fashion colours*. Bombay: India Books.
11. Remy, P. (2014), *The Art of Fashion Photography*, Prestel.
12. Seigel, E. (2008), *Fashion Photography Course: Principles, Practice, and Techniques: An Essential Guide*, B.E.S. Publishing.
13. Seigel, E. (2008), *The Fashion Photography Course: First Principles to Successful Shoot - the Essential Guide Paperback*, Thames & Hudson
14. Werner, T. (2018). *The Fashion Image: Planning and Producing Fashion Photographs and Films*, Bloomsbury Visual Arts.

Evaluation:

2 CREDIT COURSE FOR 50 MARKS		
CONTINUOUS INTERNAL EVALUATION:		Marks
Class participation, Written Test		10
Quiz		05
Class Assignments (Presentations)		10
Total Marks for CIE		25
SEMESTER-END THEORY EXAMINATION		
All questions are compulsory with internal choice.		
Question No.	Unit Content	Marks
Question 1	Unit 1	10
Question 2	Unit 2	10
Question 3	Multiple units	05
Total Marks for Semester End Examination		25
TOTAL MARKS FOR THE COURSE		50

M.Sc. (Home Science – Textile & Fashion Technology)
Level- 6.0
(Under NEP)

Semester I

Course Code	Course Title	Theory / Practical	Credits	Hours
TFT01C5E1BP	FASHION PHOTOGRAPHY & VIDEOGRAPHY	Practical	2	60

Course Objectives:

The course will enable the students:

1. To enhance their creative skills of photography and videography
2. To explore various methods of photography and videography relevant to the recent developments in the field of fashion visual communication
3. To enhance their creative abilities to visualize, communicate, integrate and act
4. To present their work in the form of visual presentation and portfolio

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Identify the trends in the fashion communication.
CO2	Compare the types of photography and videography for various uses.
CO3	Transfer the concept of production technique in the project development
CO4	Recognize the concepts of lights and location in the photo shoot and categorize the various components of photography in desired shoots.
CO5	Develop the production plan to create visual communication of the fashion
CO6	Plan the photography and videography of the fashion product and apparel based on the desired output

Syllabus:

Unit No.	Course Content	Hours
Unit I	A. Research and documentation Critical analysis of famous fashion photographers and their work (any one national/international), Study of Location & lighting – Indoor, outdoor and set designing B. Photography Creating mood boards / theme boards for fashion photography • Editorial photography • High fashion photography • Street photography • Catalogue photography C. Portfolio Development	30

Unit II	A. Research and documentation Critical analysis of famous fashion cinematographer and videographer and their work (any one national/ international), Location & lighting – Indoor, outdoor and set designing B. Videography (Product and Apparel) Creating mood boards / theme boards for fashion videography • Fashion Vlog • Fashion advertisement • Fashion short film C. Portfolio Development	30
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References:

1. Bill Cunningham B. (2019): *On the Street: Five Decades of Iconic Photography Hardcover*, Clarkson Potter.
2. Cutler E.P. & Tomasello, J. (2015), *Art and Fashion: Collaborations and Connections Between Icons*, Chronicle Books.
3. Duncan N.H. (1979), *The History of Fashion Photography*, Alpine Book Company.
4. Frisa, M.L. et al., (2016). *Across Art and Fashion*, Mandragora.
5. Herschdorfer, N. (2012), *Coming Into Fashion: A Century of Photography at Conde Nast*, Prestel.
6. Kybalova, L. (1968). *Pictorial encyclopedia of fashion*. London: Hamlyn.
7. McKelvey, K. (1996) *Fashion source book*. Oxford: Blackwell Science
8. Milbank, C.R. (2015). *Fashion: A Timeline in Photographs: 1850 to Today*, Rizzoli.
9. Nast, C. and Wintour, A., (2012) *Vogue: The Editor's Eye*, Harry N. Abrams.
10. Ogawa. Y. (1990). *Colour in fashion: a guide to coordinating fashion colours*. Bombay: India Books.
11. Remy, P. (2014), *The Art of Fashion Photography*, Prestel.
12. Seigel, E. (2008), *Fashion Photography Course: Principles, Practice, and Techniques: An Essential Guide*, B.E.S. Publishing.
13. Seigel, E. (2008), *The Fashion Photography Course: First Principles to Successful Shoot - the Essential Guide Paperback*, Thames & Hudson
14. Werner, T. (2018). *The Fashion Image: Planning and Producing Fashion Photographs and Films*, Bloomsbury Visual Arts.

Evaluation:

2 CREDITS COURSE FOR 50 MARKS		
CONTINUOUS INTERNAL EVALUATION		Marks
Internal Assessment during laboratory work		10
Stage-wise assessment of class work on thematic presentations with forecasted colour trends		10
Class participation, Journal writing & Viva-Voce		5
Total Marks for CIE		25
SEMESTER-END PRACTICAL EXAMINATION		
All questions are compulsory with internal choice.		
Question No.	Unit Content	Marks
Question 1	Unit 1	10
Question 2	Unit 2	10
Journal/Portfolio and Viva Voce		05
Total Marks for Semester End Examination		25
TOTAL MARKS FOR THE COURSE		50

M.Sc. (Home Science – Textile & Fashion Technology)
Level- 6.0
(Under NEP)

Semester I

Course Code	Course Title	Theory /Practical	Credits	Hours
TFT01C5E2A	FASHION WRITING	Theory	2	30

Course Objectives:

The course will enable the students:

1. To understand the importance of fashion writing in the fashion industry
2. To explore different forms of fashion writing, such as features, trend reports, product descriptions etc.
3. To recognize the role of digital media and social platforms in fashion writing, and how to create impactful content for online platforms
4. To develop a deep understanding of fashion trends, designers, collections, and industry news

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Understand the fundamental concepts and theories related to fashion writing
CO2	Develop an awareness of different types of fashion writing.
CO3	Develop critical thinking and analytical skills in evaluating fashion writing.

Syllabus:

Unit No.	Course Content	Hours
Unit I	A. History of fashion writing and its evolution B. Introduction and scope of fashion writing • The basics of writing and types of writing • The art of storytelling in fashion writing • Elements of effective fashion writing: tone, structure, and style C. Introduction to fashion blogging and online platforms	15
Unit II	A. Ethics and responsibility in fashion writing B. Principles of reporting: research, interviewing, fact-checking C. Fashion analysis and criticism, elements of effective fashion criticism	15
Total Hours		30

References:

1. Blanco, J. (2019). Fashion Blogging: Writing Powerful Fashion Journalism. HarperCollins
2. Barnard, M. (2012). Fashion Journalism: History, Theory, and Practice. Routledge.
3. Buckley, C. (2018). The Fashion System: Writing, Theory, and Practice of Fashion Communication. Bloomsbury Academic.
4. Cosgrave, B. (2014). Writing About Fashion. Abrams.
5. McNeil, P., & Miller, S. (Eds.). (2017). Fashion Writing and Criticism: History, Theory, Practice. Bloomsbury Visual Arts.
6. Hainley, B. (2009). Fashion and Writing. Koenig Books.
7. Jeshurun, C. (2016). Fashion Journalism and Fashion Styling: Ethics, Skills and Personal Branding. Fairchild Books.

Evaluation:

2 CREDITS COURSE FOR 50 MARKS	
CONTINUOUS INTERNAL EVALUATION:	Marks
Review of fashion write-ups, blogs, editorials etc.	10
Class participation, Quiz and class tests on fashion writing related concepts	10
Class Assignments (Presentations)	05
Total Marks for CIE	25
SEMESTER-END THEORY EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 from Unit 1	10
Question 2 from Unit II	10
Question 3 from multiple units	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

M.Sc. (Home Science – Textile & Fashion Technology)
Level- 6.0
(Under NEP)

Semester I

Course Code	Course Title	Theory / Practical	Credits	Hours
TFT01C5E2BP	FASHION WRITING	Practical	2	60

Course Objectives:

The course will enable the students to:

- Enhance their writing and communication skills in the field of fashion
- Adopt different kinds of media for effective fashion writing

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Understand the fundamental concepts and theories related to fashion writing
CO2	Analyze and critique fashion communication, including advertisements, runway shows, and editorials
CO3	Compose and create well-structured and engaging fashion write-ups including news articles, features, and critiques, while adhering to journalistic standards and principles.
CO4	Utilize digital platforms for fashion communication, including creating and maintaining a fashion blog, integrating multimedia content, and crafting engaging social media posts.
CO5	Create a professional fashion writing portfolio that showcases a variety of writing samples, reflecting their skills, knowledge, and adaptability in the field.

Syllabus:

Unit No.	Course Content	Hours
Unit I	I. Exploring different forms of fashion writing features, reviews, trend reports, and news articles. II. Analyzing Fashion writings and evaluate design, aesthetics, cultural context and societal impact III. Writing critical reviews of fashion shows, collections or designer profiles IV. Portfolio Development	30
Unit II	I. Writing fashion news articles on current industry trends or events II. Writing engaging product descriptions and retail detail. III. Developing a unique voice and style as a fashion blogger IV. Creating a fashion blog and publish a series of short posts V. Portfolio Development	30
Total Hours		60

References:

1. Blanco, J. (2019). Fashion Blogging: Writing Powerful Fashion Journalism. HarperCollins
2. Barnard, M. (2012). Fashion Journalism: History, Theory, and Practice. Routledge.
3. Buckley, C. (2018). The Fashion System: Writing, Theory, and Practice of Fashion Communication. Bloomsbury Academic.
4. Cosgrave, B. (2014). Writing About Fashion. Abrams.
5. McNeil, P., & Miller, S. (Eds.). (2017). Fashion Writing and Criticism: History, Theory, Practice. Bloomsbury Visual Arts.
6. Hainley, B. (2009). Fashion and Writing. Koenig Books.
7. Jeshurun, C. (2016). Fashion Journalism and Fashion Styling: Ethics, Skills and Personal Branding. Fairchild Books.

Evaluation:

2 CREDITS COURSE FOR 50 MARKS	
CONTINUOUS INTERNAL EVALUATION	Marks
Class participation, Internal Assessment during laboratory work	10
Stage-wise assessment of class work	10
Portfolio & Viva Voce	05
Total Marks for CIE	25
SEMESTER-END PRACTICAL EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Portfolio and Viva Voce	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

M.Sc. (Home Science – Textile & Fashion Technology)
Level- 6.0
(Under NEP)

Semester I

Course Code	Course Title	Theory /Practical	Credits	Hours
TFT01C6	RESEARCH METHODS IN HOME SCIENCE	Theory	4	60

Course Objectives:

- To build in students appreciation for high quality research in their specialization and allied areas.
- To help students master the knowledge and skills needed in conducting specialization-specific and interdisciplinary research relevant to the multiple disciplines under the umbrella of Home Science.
- To promote academic, research and professional ethics in students.
- To introduce students to principles of good scientific writing.

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Appreciate high quality research in their specialization and allied areas.
CO2	Identify, differentiate between, evaluate, and select different sampling techniques and research designs for particular research aims.
CO3	Formulate a research proposal on a worthwhile topic in their discipline, as also on interdisciplinary topics.
CO4	Abide with ethical guidelines for research.
CO5	Develop knowledge and skills to contribute to their discipline through conducting primary and original research on socially relevant, green, and high priority topics.

Syllabus:

Unit No.	Course Content	Hours
Unit I	A. Introduction and overview (i) What is a research? (ii) Importance of research in general, and in each specialization of Home Science and allied areas; illustration of research in each specialization of Home Science and allied areas (iii) Steps in the research process (iv) Qualitative versus quantitative research (v) Objectivity and subjectivity in scientific inquiry: Pre-modernism, modernism, and postmodernism B. The beginning steps in the research process (i) Identifying broad areas of research in a discipline (ii) Identifying interest areas; using multiple search strategies (iii) Prioritizing topics; specifying a topic; feasibility (iv) Review of literature/scholarly argument in support of study (v) Specifying research objectives/hypotheses/questions.	15

Unit II	A. Variables (i) Definition (ii) Characteristics (iii) Types (iv) Levels of measurement B. Measurement (i) Conceptual definitions and operational definitions (ii) Types of validity and reliability in quantitative research C. Data entry in quantitative research (i) Codebook and master-sheet (ii) Creating data files and data management	15
Unit III	A. Sampling techniques in quantitative research (i) Probability and nonprobability sampling methods in current use/examples from current research (ii) Issues with regard to sampling techniques B. Research designs in quantitative research Distinguishing between the following research designs; and, selecting research designs that are congruent with one's research purpose. (i) Experimental, quasi-experimental, and pre-experimental research designs; correlational research design Inferring causality, internal validity, external validity (ii) Epidemiological research designs (cross-sectional, cohort, & case-control studies); developmental research designs (cross-sectional, longitudinal, sequential research designs; additive, mediator & moderator models; cross-lagged panel analyses); survey and market research designs; meta-analysis (iv) Exploratory, descriptive, and explanatory designs (v) Mixed methods research designs	15
Unit IV	A. Qualitative research methods (i) Ideology/worldview of the qualitative researcher (ii) Research designs in qualitative research (iii) Sampling techniques in qualitative research (iv) Data collection methods in qualitative research (v) Data analytic strategies in qualitative research (vi) Reporting of results in qualitative research B. Scientific writing (i) Distinguishing scientific writing from popular and literary writing styles (ii) Publication guidelines (APA7); characteristics/principles of scientific writing; examples of good scientific writing (iii) Writing a research proposal/research grant; seeking funding (iv) Reporting statistical findings in text C. Ethics (i) In academia (ii) In research in general (iii) In research with human participants (Nuremberg Code, Belmont Report, ICMR Guidelines) (iv) In research with animal subjects	15
Total Hours		60

References:

1. American Psychological Association. (2019). *Publication manual of the American Psychological Association* (7th Ed.). APA.
2. Bhattacharyya, G.K., & Johnson, R.A. (1977). *Statistical concepts and methods*. John Wiley. (classic)
3. Creswell, J. W. (2014). *Research design: Qualitative, quantitative, and mixed methods approaches* (4th Ed.). Sage.
4. Denzin, N. K., & Lincoln, Y. S. (2011). *The Sage handbook of qualitative research*. Sage.
5. Fraenkel, J. R., & Wallen, N. E. (2006). *How to design and evaluate research in education* (6th Ed.). McGraw-Hill.
6. Jackson, S. L. (2012). *Research methods and statistics: A critical thinking approach* (4th Ed.). Wadsworth Cengage Learning.
7. Martin, W. E., & Bridgmon, K. D. (2012). *Quantitative and statistical research methods*. Jossey-Bass.
8. Merriam, S. B., & Tisdell, E. J. (2015). *Qualitative research: A guide to design and implementation* (4th Ed.). John Wiley.
9. Patton, M. Q. (2002). *Qualitative research & evaluation methods* (3rd ed.). Sage.
10. Kerlinger, F. N. & Lee, H. B. (2000). *Foundations of behavioral research*. Harcourt.
11. Leong, F.T.L. & Austin, J. T. (Eds.) (2006). *The psychology research handbook: A guide for graduate students and research assistants* (2nd ed.). Sage.
12. Rubin, A., & Babbie, E. R. (2011). *Research methods for social work* (7th ed.). Thomson, Brooks/Cole.

Evaluation:

4 CREDITS COURSE FOR 100 MARKS	
CONTINUOUS INTERNAL EVALUATION:	Marks
Class participation, Written Short Quizzes	10
Short Exercises	10
Group project to be completed in pairs or threes: Formulating a Research Proposal on a High Priority Topic relevant to each student group's specialization; students can opt to work on interdisciplinary research project proposals with team members from more than one specialization of Home Science	30
Total Marks for CIE	50
SEMESTER-END EXAMINATION	
All questions are compulsory with internal choice.	
Question 1 from Unit 1	10
Question 2 from Unit 2	10
Question 3 from Unit 3	10
Question 4 from Unit 4	10
Question 5 from multiple units	10
Total Marks for Semester End Examination	50
TOTAL MARKS FOR THE COURSE	100

Syllabus

P.G. Diploma in Home Science – Textile & Fashion Technology

M.Sc. (Home Science – Textile & Fashion Technology)

(Semester II)

SEMESTER II: Mandatory Courses

Semester II – Global Fashion (Credits 2)

Course Code	Course Title	Theory/ Practical	Credits	Hours
TFT02C1A	GLOBAL FASHION	Theory	2	30

Course Objectives:

The course will enable the students to:

- Acquire a deeper understanding of the global fashion business.
- Seek inspiration by the success of leading national and international fashion designers by understanding their journey in couture and brand development.

Course Outcomes:

After successful completion of the course, a student will be able to:	
CO1	Understand and describe the global fashion scenario
CO2	Explain the basic fashion terminology
CO3	Identify and describe the various types of fashion products and their categories
CO4	Interpret and relate the fashion adoption theories
CO5	Execute designer and brand research
CO6	Evaluate the designers, their creations and brands to stay informed about the latest trends in apparel industry

Syllabus Content:

Unit No.	Course Content	Hours
Unit I	Fashion Terminology Structure of the fashion industry and prospects Liberalization, Privatization and Globalization - its impact on Indian and world economy Fashion apparel - women's, men's, children's and teens- category and size ranges and trends Fashion accessories- categories, market segments and trends in accessory industry Leather and fur- the leather industry, trends in leather industry, the fur industry Fast v/s slow fashion	15
Unit II	Global designer practices (National & International) - vendor as designer, private label, brand label, freelance designers, designer as manufacturer, costume designer, consumers as designers, Fashion leaders and followers Global fashion centres, shows, trade fairs and their importance.	15
Total Hours		30

References:

1. Dorothy S. Lyle & Jeanne Brinkley, *Contemporary Clothing*, Bennet & McKnight Publishing Company, Peoria, Illinois, 1983
2. Ulla Vad Lane-Rowley, *Using design protection in the Fashion & Textile Industry*, Jhon Wiley & Sons, Ist Edition 1997.
3. Venkatesan. R, & Katti, V. *Indian Textile Policy for 21st Century*, B R Publishing Corporation.
4. Buxbaum, G. (2006) *Icons of Fashion The 20th Century* Ed. Munich: Prestel.
5. Stone Elaine, Farnan Sheryl, A. (2018) *The Dynamics of Fashion*. Fairchild Books 5th Edition.
6. Udale, J. (2014) *Textiles And Fashion Exploring Printed Textiles, Knitwear, Embroidery, Menswear And Womenswear*, India: Bloomsbury.
7. Kincade Doris H, (2011) *Merchandising of Fashion Products*, India: Pearson.
8. Menkes, S. and Nippoldt, R. (2023) *Fashion Designers A-Z*. 40th Ed. Germany: Taschen.

Evaluation:

2 CREDITS COURSE FOR TOTAL MARKS OF 50	
CONTINUOUS INTERNAL EVALUATION:	Marks
Participation in Class Quiz, Review of literature and guided discussions, Q&A sessions	10
Class tests	05
Class Assignments (Presentations)	10
Total Marks for CIE	25
SEMESTER-END THEORY EXAMINATION	
All questions are compulsory with internal options	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Question 3 – Multiple units	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

Semester II – Trend Forecasting (Credits 2)

Course Code	Course Title	Theory/ Practical	Credits	Hours
TFT02C1B	TREND FORECASTING	Theory	2	30

Course Objectives:

The course will enable the students to:

- Understand fashion phenomena with fashion theories and frameworks
- Develop a holistic understanding of fashion, trends and forecasting in a global setting
- Increase abilities in applying principles and concepts to specific situations, building analytical skills and gaining experience in problem solving
- Apply to real-life business market or professional practices for each of the forecasting disciplines
- Effectively communicate understanding of fashion trends in both visual and written form

Course Outcomes:

After successful completion of the course, a student will be able to:	
CO1	Understand and describe the trend forecasting tools
CO2	Explain the fashion forecasting process
CO3	Identify and describe the various types of forecasting
CO4	Interpret and relate the influence of trend and culture on trend forecasting
CO5	Execute the market research for the development of trend analysis
CO6	Analyze the trends and trend cycles to predict future trends
CO7	Evaluate the designer's creations and brands to stay informed about the latest trend in apparel industry
CO8	Understand the process of development of viable designs based on the trend research forecasting

Syllabus Content:

Unit No.	Course Content	Hours
Unit I	I. Overview of trend forecasting tools- Macro and micro trend evaluation, Fashion pyramid, Fashion cycle and process II. Innovation: Diffusion of Innovation, Cultural Indicators. III. Forecasting Process- Color Forecasting, Fashion Forecasting, Textile Forecasting, Style Forecasting, Sales Forecasting, Accessories forecasting, Fabric forecasting	15

Unit II	I. Influence of trends, culture, society and art on fashion- Contemporary Culture, Street Influence, Celebrity Culture, The new gatekeepers of fashion II. Trend/Fashion design process- Multiple models Range building with trends, Trend prediction for a customer base, Fabric Fairs, Consumer Research III. Trend Analysis- i. Analyze trends and trend cycles to predict future trends Comparative study of current designers and brands ii. Process of translation of research into viable designs iii. Identify the target market and assess customer needs- Communicate creative concepts effectively iv. Utilize the research process to recognize past and present influences and forecast future influences v. Methods of analyzing and synthesizing data and draw conclusions	15
Total Hours		30

References

1. Brannon, E. L. (2005). *Fashion forecasting* (3rd Ed.). Fairchild Publications.
2. Regan, C. L. (2008). *Apparel product design & merchandising strategies*. Pearson Prentice Hall.
3. Hethorn, J., & Ulasewicz, C. (2008). *Sustainable fashion: why now?* Fairchild Publications.
4. Pechoux. B, L., Little, T, J. and Istook, C. L. (2001). *Fashion Marketing: Contemporary Issues*. 1st Edition. Routledge.

Evaluation:

2 CREDIT COURSE FOR TOTAL MARKS OF 50	
CONTINUOUS INTERNAL EVALUATION:	Marks
Quiz, Review of literature and guided discussions, Q&A sessions	10
Class participation, Class tests	05
Class Assignments (Presentations)	10
Total Marks for CIE	25
Semester-End Theory Examination	
All questions are compulsory with internal options	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Question 3 – Multiple units	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

Semester II Global Textiles & Apparel – Marketing and Merchandising (Credits 4)

Course Code	Course Title	Theory /Practical	Credits	Hours
TFT02C2	GLOBAL TEXTILES & APPAREL – MARKETING AND MERCHANDISING	Theory	4	60

Course Objectives:

The course will enable the students to:

- Understand the concepts involved in global marketing and merchandising and entrepreneurship
- Gain knowledge of global bodies, policies, functions and factors influencing international trade in the textile and apparel industry
- Acquire enhanced marketing, merchandising and entrepreneurial skills

Course Outcome:

After the completion of the course, the student should be able to:	
CO1	Understand the concept of global marketing, merchandising and entrepreneurship in the field of textile and apparel
CO2	Apply this knowledge for understanding the needs and demands of the ever-changing apparel and fashion industry
CO3	Develop the appropriate pricing, marketing and merchandising strategies for international marketing ensuring better sales and profits
CO4	Create models of marketing, merchandising and entrepreneurship based on global market demands

Syllabus Content:

Unit No.	Course content	Hours
Unit I	I. International marketing i. Need and scope. ii. Difference between domestic and international marketing. iii. Tasks involved in international marketing. iv. Factors influencing and Framework for international marketing (PESTLE). v. International trade bodies and policies. vi. Product, promotion, pricing strategies in international marketing. II. Ecology, ethics and green issues i. Business ethics and social responsibility ii. Ethics in retailing	15

Unit II	III. Merchandising systems i. Business to business relationships-wholesaling, ii. Business to ultimate consumer transactions-retailing iii. Line planning: evaluating merchandising mix and forecasting offerings, Merchandise budgets and assortment plans, delivery and allocation plans iv. Strategic Planning: (Definition, Marketing/Merchandising calendar, Line preview date, Critical path method, Line plan summary, Sales forecast, Shelf stock plan, Style status report, Order tracking. Traditional & Contemporary line planning) v. Line development: Line concept/ finished goods buying/ sourcing, product development (creative design, line adoption, technical design) vi. Line presentation: internal line presentation, wholesale online presentation and retail line presentation vii. Assortment dimensions: Merchandise assortment, SKU stock keeping unit	15
Unit III	I. Merchandise planning, buying and control. i. Merchandise distribution ii. Service quality, servicing customers in on-site and offsite ventures iii. Personal Selling: Characteristics of sales associate, Sales presentation II. Merchandising perspectives on pricing i. Income statements ii. Pricing and costing: Variables and types iii. Components of pricing strategies III. Line development and computer technology: i. CAD systems, PDS, PIMS ii. Videoconferencing iii. Customization with Body scanning iv. Interactive on-line fashion information services v. Web based data management systems	15
Unit IV	I. Quality assurance i. Definition and importance of quality management ii. Sigma six strategy iii. Standards and specifications. iv. Quality determinants (raw materials, pattern and fit, construction) v. Quality and sampling procedures vi. Statistical Process Control (SPC) vii. Loss prevention: Shoplifting, Deterrents and controls, Electronic Article Surveillance (EAS)	15
Total Hours		60

References:

1. Aulet, B. (2013). *Disciplined entrepreneurship: 24 steps to a successful start-up*. Wiley
2. Boyd, H. W. (1995). *Marketing management: Strategic approach with a global orientation*. Irwin / Richard Irwin.
3. Davar, R. S. (1982). *Modern marketing management*. Progressive.
4. Diamond, E. (2006). *Fashion retailing: A multi-channel approach*. Pearson/Prentice Hall.
5. Donnellan, J. (1999.) *Merchandising buying and management*. Fairchild Publications. Ed.
6. Drucker, P. (2011) *Innovation and entrepreneurship*. Harper Business
7. Ghauri, P. & Cateora, P. (2010) *International marketing* Paperback. McGraw-Hill Education
8. Hines, T. & Bruce, M. (2001). *Fashion marketing*. Butterworth Heinemann.
9. Jackson, T. & Shaw, D. (2001). *Mastering fashion buying and merchandising management*. Palgrave.
10. Jarnow, J., Guereira, M. & Judelle, B. (1987). *Inside the fashion business*. (4th Ed.). MacMillan.
11. Kale, N. G. (1995). *International marketing*. Vipul Prakashan.
12. Kale, N. G. (1998). *Fundamentals of marketing and finance*. Manisha Prakashan.
13. Kotler, P. (1998). *Marketing management: Analysis, planning, implementation and control*. (9th Ed.). Prentice Hall.
14. Kunz, G. (2005) *Merchandizing: Theory principles & practice*. Fairfield Publications & Practice.
15. Mauborgne, R. & Kim, W. (2015). *Blue ocean strategy*. Harvard Business School Press
16. Mehta, P. & Bhardwaj, S. (1998). *Managing quality in apparel industries*. New Age International Pvt. Ltd.
17. Minniti, M. (Ed) (2007). *Entrepreneurship: The engine of growth*, Volumes 1-3
18. Sengupta, S. (1990) *Brand positioning strategies for competitive advantage*. Tata McGraw
19. Vaz, M. (1996). *Export marketing*. Manisha Prakashan

Evaluation:

2 CREDITS COURSE FOR TOTAL MARKS OF 50	
CONTINUOUS INTERNAL EVALUATION:	Marks
Review of literature and guided discussions	10
Class participation, Class tests Quiz	15
Participation in Class	10
Class Assignments (Presentations)	15
Total Marks for CIE	50
SEMESTER-END THEORY EXAMINATION	Marks
All questions are compulsory with internal choice.	
Question 1 – Unit 1	10
Question 2 – Unit 2	10
Question 3 – Unit 3	10
Question 4 – Unit 4	10
Question 5 – Multiple Units	10
Total Marks for Semester End Examination	50
TOTAL MARKS FOR THE COURSE	100

**Semester II – Pattern Making & Garment Construction for Menswear (Woven)
(Credits 2)**

Course Code	Course Title	Theory/ Practical	Credit	Hours
TFT02C 3A	PATTERN MAKING & GARMENT CONSTRUCTION FOR MEN'S WEAR (WOVEN)	Practical	2	60

Course Objectives:

The course will enable the students to:

- Study the advanced techniques of pattern making for different styles of clothing for men.
- Identify, analyze and source different types of fabrics for particular end-uses.
- Acquaint themselves with the skill of handling different materials and patterns for different styles of clothing for men.
- Adapt constructed blocks to the given patterns and grading according to different sizes.
- Plan economical layouts of pattern pieces on fabric for cutting.
- Use various techniques of apparel construction.

Course Outcome:

After successful completion of the course, a student should be able to:	
CO1	Interpret designs / sketches systematically and develop patterns
CO2	Explore the knowledge related to advanced techniques of pattern making and create a variety of patterns
CO3	Evaluate and identify trends in local markets through fabric sourcing to create garments
CO4	Apply the techniques of apparel making and achieve the desired design variations while creating garments
CO5	Create theme relevant boards which are essential to the design process
CO6	Create professional portfolio for interviews and other job profile

Syllabus Content:

Unit No.	Course Content	Hours
Unit I	A. Revision of Adult's Basic Shirt Block, Sleeve, Trousers B. Revision of sleeves and collars C. Drafting of Jacket and Vest D. Drafting of yokes, gathers, pleats for upper and lower garments E. Pattern making & Garment Construction of Designer Western wear (Variation of Shirt and Trouser)	30
Unit II	A. Drafting and adapting patterns (along with draft instructions and markings) using anthropometric measurements and grading of upper and lower block B. Pattern Making & Garment Construction of Designer Indian wear (Variations of Kurta with Pajama / Churidar and Waist Coat)	30

* Construction of garments to include zip with fly, pockets (bound, velt, side pant / pajama, kurta) with plackets (kurta / double shirt)

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7. Bradley, G. (1954). *Costume design*. (3rd Ed.). Searton International Textbook
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12. Giolle. D. A. & Berke. B. (1979). *Figure types and size ranges*. New York: Fairchild.
13. Goulbourn, M. (1971). *Introducing pattern cutting: Grading and modeling*. London: B. T.
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- Toledo, R. (1996). *Style dictionary*. New York Abbeville Press.

Evaluation:

2 CREDITS COURSE FOR TOTAL MARKS OF 50	
CONTINUOUS INTERNAL EVALUATION:	Marks
Internal Assessment during laboratory work	10
Stage-wise assessment of class work	05
Class participation, Journal writing & Viva-Voce	10
Total Marks for CIE	25
SEMESTER-END PRACTICAL EXAMINATION	Marks
All questions are compulsory with internal options	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Portfolio and Viva Voce	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

Semester II C3 – B) Accessory Development Practical (2 Cr)

Course Code	Course Title	Theory/ Practical	Credits	Hours
TFT02C3BP	ACCESSORY DEVELOPMENT	Practical	2	60

Course Objectives:

The course will enable the students to:

- Categorize different types of accessories for designing and development
- Identify and select different types of fabrics, trims and materials for particular end-uses.
- Study the recent trends in various fashion accessories.

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Remember and understand the techniques of accessory making of different styles
CO2	Understand and apply the current market trends for different fashion accessory products
CO3	Identify and source different fabrics and textures and apply skills for making different fashion accessories products along with the cost sheet
CO4	Create a portfolio relevant to accessory designing and development

Syllabus Content:

Unit No.	Course Content	Hours
Unit I	I. Designing and Making: value addition through coloration, embroidery, other techniques using different materials and methods (traditional & contemporary after studying various designer brand products and styles) i. Head Gears ii. Stoles/Scarves & Belts II. Product and Portfolio Development	30
Unit II	III. Designing and making: value addition through colouration, embroidery, other techniques using different materials and methods (traditional & contemporary after studying various designer brand products and styles) i. Bags & Footwear ii. Jewelry, Watches IV. Product and Portfolio Development	30
Total Hours		60

References:

1. Peacock, J. (2000) '*The Complete 20th Century Source Book*', London: Thames and Hudson.
2. Peacock, J. (1996) '*Fashion Accessories-Men*', London: Thames and Hudson.
3. Billcocks, C. (1997) '*Century of Gavin Bags*', New Jersey: Chartwell Books.
4. McDowell, C. & Blahnik, M. (1989) '*Shoes-Fashion and Fantasies*', London: Thames and Hudson.
5. Waddell, G. (2004) '*How Fashion Works Couture, Ready-to-Wear and Mass Production*' Oxford UK: Blackwell Publishing.
6. Abling, B. & Tortora, P. (2003) '*The Fairchild Encyclopedia of Fashion Accessories*', Fairchild Books: Student Edition.
7. Frings, G. S. (2007). 'Fashion from Concept to Consumer', Pearson; 9th edition.
8. Lau, J. (2021) '*Basics Fashion Design 09: Designing Accessories*' Bloomsbury Publishing.

Evaluation:

2 CREDITS COURSE FOR TOTAL MARKS OF 50	
CONTINUOUS INTERNAL EVALUATION:	Marks
Internal Assessment during laboratory work	10
Stage-wise assessment of class work developed accessories	05
Class participation, Portfolio & Viva-Voce	10
Total Marks for CIE	25
SEMESTER-END PRACTICAL EXAMINATION	Marks
All questions are compulsory with internal choice.	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Portfolio and Viva-Voce	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

M.Sc. in Home Science – Textile and Fashion Technology
Level – 6.0
(Under NEP)

Semester- II

Major (Mandatory Course)

Course Code	Course Title	Theory/ Practical	Credits
TFT02C4	Advanced Statistics in Home Science	Theory	2

Course Objectives:

1. To help students value the crucial role of advanced/inferential statistics in quantitative research.
2. To help students master the prerequisite concepts needed for the use of advanced/inferential statistics.
3. To enable in students the skills in selecting, computing, interpreting and reporting advanced statistics.
4. To facilitate students in learning how to run advanced statistical tests using SPSS.

Course Outcomes:

On successful completion of the course:	
CO No.	Course Outcomes
CO1	Students will be able to explain each of the prerequisite concepts needed for the use of advanced/inferential statistics (e.g., sampling distribution, Type I and Type II errors, central limit theorem, standard error).
CO2	Students will be able to identify the types of variables needed for each advanced statistical test and the level of measurement of each selected variable, and also meet test assumptions, such that the advanced statistical test can be used in a suitable manner.
CO3	Students will be able to identify, differentiate between, evaluate, select, and use (compute, interpret and report test results for) different advanced statistical tests to compare and contrast phenomena.
CO4	Students will be able to identify, differentiate between, evaluate, select, and use (compute, interpret and report test results for) different advanced statistical tests to examine interrelationships between phenomena.
CO5	Students will have the necessary knowledge and skills to design and conduct explanatory research design studies.
CO6	Students will demonstrate working knowledge of the use of SPSS for selected advanced statistical tests.

Unit No.	Course Content	Hours
I	I. Prerequisite concepts needed for the use of advanced/inferential statistics - Types of distribution - Frequency distribution - Normal distribution & departures from normality - Probability distribution - Sampling distribution - Central limit theorem & normality of sampling distributions - Test assumptions, & parametric and nonparametric methods - Point estimation vs. interval estimation	15

	v. Standard error (and confidence intervals) vi. Null hypothesis vs. alternative hypotheses vii. Significant vs. non-significant findings, Type I error vs. Type II error, Type I error and levels of significance II. Using an advanced statistical method (steps in using an advanced statistical method)	
II	I. To study statistics that allows us to contrast phenomena i. Univariate chi-square test ii. Bivariate chi-square test iii. One sample t-test iv. t- or z- test for contrasting two independent groups v. Paired t-test vi. one-way independent groups ANOVA & conceptualizing other ANOVAs II. To study statistics that allows us to examine relationships between variables i. Bivariate chi-square test ii. Product-moment correlation coefficient & conceptualizing applications for simple linear regression III. Ethics in the use of statistics (e.g., the importance of test assumptions, the number of statistical tests in a research and levels of significance)	15
	Total Hours	30

References:

1. Bhattacharyya, G.K., & Johnson, R.A. (1977). *Statistical concepts and methods*. John Wiley. (classic)
2. Jackson, S. L. (2012). *Research methods and statistics: A critical thinking approach* (4th ed.). Wadsworth Cengage Learning.
3. Johnson, R. A., & Bhattacharyya, G. K. (2019). *Statistics: Principles and methods* (8th ed.). John Wiley.
4. Martin, W. E., & Bridgmon, K. D. (2012). *Quantitative and statistical research methods*. Jossey-Bass.
5. Kachigan, S. K. (1986). *Statistical analysis: An interdisciplinary introduction to univariate & multivariate methods*. Radius Pr.
6. Kerlinger, F. N. & Lee, H. B. (2000). *Foundations of behavioral research*. Harcourt.
7. Wheelan, C. J. (2014). *Naked statistics: Stripping the dread from the data*. W.W. Norton.

Evaluation:

2 CREDITS COURSE FOR TOTAL MARKS OF 50	
CONTINUOUS INTERNAL EVALUATION	MARKS
Class participation, Written Short Quizzes (individually) & Problem-solving Exercises (in pairs or small groups)	5
Completion of an Add-On SPSS short-term course on using SPSS to compute the following advanced statistical tests and their nonparametric equivalents: univariate chi square, bivariate chi square, one sample t-test, t- or z-test of independent groups, paired t-test, one-way independent groups ANOVA, and correlation coefficient.	10
Practice Sums (individually), at least three for each of the following: standard error of the mean, univariate chi square, bivariate chi square, one sample t-test, t- or z-test of independent groups, paired t-test, one-way independent groups ANOVA, and	10

correlation coefficient.	
Total Marks for Internal Assessment	25
SEMESTER-END EXAMINATION	MARKS
All questions are compulsory. Up to 50% choice to be given within each question.	
Question 1 from Unit 1	10
Question 2 from Unit 2	10
Question 3 from both units	5
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

SEMESTER II: Elective Courses

Semester II – Surface Embellishment (Credits 2)

Course Code	Course Title	Theory /Practical	Credits	Hours
TFT02C4E1A	SURFACE EMBELLISHMENT	Theory	2	30

Course Objectives:

The course will enable the students to:

- Understand the importance of surface embellishment in the fashion industry
- Understand variety of surface embellishment techniques
- Familiarize with various materials and techniques used in surface embellishment
- Understand basic elements and principles of surface embellishment
- Provide an understanding of handicraft industry, clusters and government initiatives

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Explain the concept of surface embellishment and its significance
CO2	Identify and analyze the basic elements and principles of surface embellishment
CO3	Demonstrate selection of different materials and techniques in surface embellishment
CO4	Understand the handicraft industry, current trends and its challenges

Syllabus Content:

Unit No.	Course Content	Hours
Unit I	I. Introduction to surface embellishment i. Importance and significance of surface embellishment in different cultures and periods ii. Role of embellishment in fashion II. Elements of Design III. Sources of Design IV. Placement of Designs V. Techniques of traditional and contemporary surface embellishment VI. Tools and materials used for surface embellishment	15
Unit II	I. Embellishing techniques i. Hand and machine embroidery work ii. Dyeing and Printing II. Sustainable approaches to surface embellishment III. Industry, Clusters and Government initiatives IV. Innovation and creativity in fabric surface embellishment	15
Total Hours		30

References:

1. Thames. H (2017). *Patchwork and quilting, A maker's guide*.
2. Bradley, A. (2017). *Surface Design for Fabric*. Laurence King Publishing.
3. Haigh. J (1998). *Crazy patchwork*, McGraw-hill
4. Lawther. G (1995). *Easy to make applique*, Anaya Publishers
5. Chainey. B, (1993). *The essential quilter*, David & Charles UK
6. Anonymous (1993). *The Merehurst Book of Needlework*, Leefung- ASCO printers.
7. Campbell-Harding. V (1994). *Starting to stitch creatively*, BT Batsford Ltd. London.
8. Messenr. J. (1996). *World of embroidery*, BT Batsford Ltd. London

Evaluation:

2 CREDITS COURSE FOR 50 MARKS	
CONTINUOUS INTERNAL EVALUATION:	Marks
Class participation, Written test	10
Quiz and class tests on surface embellishment related concepts	10
Class Assignments (Presentations)	05
Total Marks for CIE	25
SEMESTER-END THEORY EXAMINATION	Marks
All questions are compulsory with internal choice.	
Question 1 from Unit 1	10
Question 2 from Unit II	10
Question 3 from multiple units	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

Semester II - Surface Embellishment (Credits 2)

Course Code	Course Title	Theory /Practical	Credits	Hours
TFT02C4E1BP	SURFACE EMBELLISHMENT	Practical	2	60

Course Objectives:

The course will enable the students to:

- Understand variety of surface embellishment techniques
- Select a suitable technique for given fabric/garment styles and embellish it

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Demonstrate an understanding of different techniques and methods used for fabric surface embellishment, such as embroidery, appliqué, and embellishments.
CO2	Prepare samples of embellishment.
CO3	Apply suitable embellishment in the fabric/garment
CO4	Develop designs using embellishments.
CO5	Identify suitable stitches/ painting techniques for embroidery designs/ painting designs
CO6	Demonstrate an understanding of different techniques and methods used for fabric surface embellishment, such as embroidery, appliqué, and for other fancy surface embellishments.
CO7	Prepare samples of embellishment.

Syllabus Content:

Unit No.	Course Content	Hours
Unit I	I. Surface embellishment through Embroidery i. Surface Embellishment on fabric or garment with machine embroidery / Computerized machine embroidery ii. Surface Embellishment on fabric or garment with hand embroidery/ ari work/ quilting/Applique/Smocking etc. iii. Surface Embellishment on fabric or garment with traditional painting/modern contemporary painting	30
Unit II	I. Surface embellishment through fancy techniques i. Embellishment on fabric or garment with beads/laces/sequins/ mirrors/ stones/ patch work/tassels/fringes/Braiding/ribbon etc. II. Combining different techniques and materials, Creating sample swatches and design illustrations III. Showcasing finished projects in a professional portfolio.	30
Total Hours		60

References:

1. Thames, H., (2017). *Patchwork and quilting, A maker's guide*.
2. Bradley, A., (2017). *Surface Design for Fabric*. Laurence King Publishing.
3. Haigh, J., (1998). *Crazy patchwork*, McGraw-hill
4. Lawther, G (1995). *Easy to make applique*, Anaya Publishers
5. Chainey, B, (1993). *The essential quilter*, David & Charles UK
6. Anonymous (1993). *The Merehurst book of needlework*, Leefung-Asco printers.
7. Campbell Harding, V (1994). *Starting to stitch creatively*, BT Batsford Ltd. London.
8. Messenr, J. (1996). *World of embroidery*, BT Batsford Ltd. London

Evaluation:

2 CREDITS COURSE FOR TOTAL MARKS OF 50	
CONTINUOUS INTERNAL EVALUATION	Marks
Internal Assessment during laboratory work	10
Stage-wise assessment of class work	10
Class participation, Portfolio & Viva Voce	5
Total Marks for CIE	25
SEMESTER-END PRACTICAL EXAMINATION	Marks
All questions are compulsory with internal choice.	
Question 1 - Unit 1	10
Question 2 - Unit 2	10
Portfolio and Viva Voce	05
Total Marks for Semester End Examination	25
TOTAL MARKS FOR THE COURSE	50

Semester II - Fashion Illustration (Credits 2)

Course Code	Course Title	Theory /Practical	Credits	Hours
TFT02C4E2A	FASHION ILLUSTRATION	Theory	2	30

Course Objectives:

The course will enable the students to:

- Understand the rules of proportion and compare types of proportion in illustration
- Understand the ethics of fashion designing.
- Acquire the knowledge of research for application in the context of fashion illustration.
- Learn about various factors in developing styles and a collection.
- Learn types and the use of creative narratives for fashion presentation.

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Describe and compare the types of proportion and their rules.
CO2	Interpret the role of fashion illustration in the communication of expression.
CO3	Apply the concept of research in analyzing the trends.
CO4	Define various design elements for the development of a collection.
CO5	Create a communication plan through various narratives for fashion presentation.
CO6	Describe design collections for diverse fashion markets.

Syllabus Content:

Unit No.	Course Content	Hours
Unit I	I.Introduction to fashion illustration i. Historical, Greek and modern rules of proportion ii. Changes in fashion illustration styles and proportion over the centuries. iii. The role of fashion illustration as a mode of expression and representation for contemporary apparel styles and trends II.Human Anatomy i. Understanding Human Anatomy in illustration ii. Studying the different body parts in detail in reference to illustration iii. Perspectives in fashion figure drawing. III.Research in fashion i. Creative research ii. Fabric research iii. Colour research iv. Critical Issues in Fashion Research	15

Unit II	I. Introduction to various styles and silhouettes i. Body type and silhouettes ii. Various types of bottom skirts, leg wear, collar, neckline, gowns, tops, sleeves, etc. II. Developing collection i. Meaning of a collection ii. Factors influencing collection iii. Finding an inspiration iv. Collection for different markets v. Ethics in fashion design III. Narrative techniques i. Cross Media Narratives ii. Types of presentation - Portfolio presentation, in-house presentation, runway presentation, etc. iii. Essential components of portfolio presentation and its importance. iv. Creative directions	15
	Total Hours	30

References:

1. Abling, B. (2017), *Fashion Flats and Technical Drawing*, Bloomsbury Academic USA
2. Abling, B. (2019), *Fashion Sketchbook*, Fairchild Books
3. Arellano, C. et. al., (2014), *Costume Design and Illustration*, Design Studio Press
4. Brambatti, M. (2017), *Fashion Illustration and Design: Methods & Techniques for Achieving Professional Results*, Promopress
5. Bryant, M.W. (2016), *Fashion drawing –2nd Edition*, Laurence King Publishing
6. Calderin, J. (2012), *Fashion Design Essentials: 100 Principles of Fashion Design*, Rockport Publishers
7. Collussy, M.K. and Greenberg, S. (2008), *Rendering Fashion, Fabrics & Prints- 2nd Edition*, Prentice Hall
8. Corfree, S. (2020), *Fashion Design Workshop: Remix: A Modern, Inclusive, and Diverse Approach to Fashion Illustration for Up-and-Coming Designers*, Walter Foster Publishing
9. Dev, K. and Singh, M. (2019), *Complete Course Fashion Design*, Computech Publications Limited
10. Drudi, E. K. & Paci, T. (2016), *Figure Design for Fashion Design*, The Pepin Press
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12. Frings, G.S. (1994) *Fashion – From Concept to Consumer – 4th Edition*, Prentice Hall.
13. Garthe, M. (1996), *Fashion and Color*, Rockport Publishers
14. Hagen, K. (2004), *Fashion Illustration for Designers*, Prentice Hall
15. Harvey, R. (2012), *Launching a Successful Fashion Line: A Trendsetter's Guide*, A & C Black
16. Ireland, P.J.,(1992), *Introduction to Fashion Design*, Batsford Ltd.
17. Ireland, P.J. (2008), *New Encyclopedia of Fashion Details*, Batsford Ltd.
18. Jena, D. and Pathak, M. (2023), *The Glossary of Visual Design*, Independently Published
19. Kiper, A. (2011), *Fashion Illustration, Inspiration and Technique* , David & Charles Company
20. Lafuente, M. (2006), *Essential Fashion Illustration*, Rockport Publishers
21. LeLarge, B. (2014), *Fashion Design Lookbook*, Walter Foster Publishing
22. Mbonu, E. (2014), *Fashion Design Research*, Laurence King Publishing
23. McKelvey, K. (2009), *Fashion Source Book – 2nd Edition*, Wiley India Pvt Ltd
24. McKelvey, K. and Munslow, J (2008), *Fashion Forecasting*, John Wiley & Sons Ltd.
25. McKelvey, K. and Munslow, J.(1997), *Illustrating Fashion*, Blackwell Science
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27. Nunnally, C.A., (2009), *The Encyclopedia of Fashion Illustration Techniques: A Comprehensive Step-by-Step Visual Guide to Fashion Design*, Running Press
28. Paci, T. (2018), *Colour in Fashion Illustration: Drawing and Painting Techniques*, Promopress
29. PIE International (2022), *New Fashion Illustration: Outfit Ideas For All*, Pie International Co. Ltd.
30. Raman, N.A. (2019), *Fashion Design & Technology Theory*, Neelkanth Publishers
31. Renfrew, C. and Renfrew, E. (2009), *Basics Fashion Design 04- Developing a Collection*, Ava Book Productions Pte. Ltd.
32. Riegelman, N. (2012), *9 Heads: A Guide to Drawing Fashion- 2nd Edition*, Nine Heads Media
33. Seaman, J. (1996), *Fashion Illustration*, Batsford Ltd.
34. Singhal, R. and Bharali, K. (2010), *Fashion Rendering*, Om books International

35. Suhner, A. (2011), Technical Drawing for Fashion Design Vol. 2: Garment Source Book, Pepin Press
36. Takamura, Z. (2012), Fashion Illustration Techniques: A Super Reference Book for Beginners, Rockport Publishers
37. Tate, S.L. (2004), Inside Fashion design – 5th Edition, Pearson Education Pte. Ltd.
38. Tatham, C. & Seaman, J. (2004), Fashion Design Drawing Course – Principles, Practice and Techniques, Thames & Hudson Ltd.,
39. Tejwani, S.F. (2015), The Art of Fashion Illustration: Learn the Techniques and Inspirations of Today's Leading Fashion Artists, Rockport Publishers
40. Watanbe, N. (2009), Contemporary Fashion Illustration Techniques, Rockport Publishers
41. Whelan, B.M. (1996), Colour Harmony 2: A Guide to Creative Colour Combinations, Rockport Publishers

Evaluation:

2 CREDITS COURSE FOR TOTAL MARKS OF 50		
CONTINUOUS INTERNAL EVALUATION:		Marks
Class participation, Written Test		10
Quiz		05
Class Assignments (Presentations)		10
Total Marks for CIE		25
SEMESTER-END THEORY EXAMINATION		Marks
All questions are compulsory with internal choice.		
Question No.	Unit Content	Marks
Question 1	Unit 1	10
Question 2	Unit 2	10
Question 3	Multiple units	05
Total Marks for Semester End Examination		25
TOTAL MARKS FOR THE COURSE		50

Semester II - Fashion Illustration (Credits 2)

Course Code	Course Title	Theory /Practical	Credits	Hours
TFT02C4E2BP	FASHION ILLUSTRATION	Practical	2	60

Course Objectives:

The course will enable the students to:

- Explore the ability and skill to draw fashion figures and drape garments on them.
- Translate the complete ideas of designs (colour, texture, silhouette and technique) on paper.
- Conceptualize their ideas and amalgamate different techniques in creating a professional designer's portfolio.
- Acquire proficiency in using mix media to create design boards for designing purposes.

Course Outcome:

After successful completion of the course, a student will be able to:	
CO1	Identify the various proportions of fashion models and rendering techniques.
CO2	Explore different mediums used in rendering
CO3	Design theme based collection
CO4	Recognize different postures of fashion models for fashion illustration
CO5	Develop design glossary for the illustration and create art presentations in the form of fashion collages using novel techniques
CO6	Plan and create original design collections for diverse fashion markets, demonstrating proficient artistic ability and utilizing advanced hand rendering techniques

Syllabus Content:

Unit No.	Course Content	Hours
Unit I	I. Basic of fashion illustration ● Figure proportions 8½, 10 and 12 heads ● Rendering Flesh tones ● Exploring Mediums-Pen, Pencils, Colours, Inks, Crayons any other II. Rendering and poses ● High-end rendering of different fabric and textures - Wools, Furs and skins, Denim/ Twill, Leather, Quilt, Shine & Iridescence, Sheerness and Transparency, Lacy and Layered, Beads and Sequins, Prints and Patterns. ● Surface Ornamentation Renderings ● Poses – Front, Back, Side, Sitting III. Drawing features - eyes, nose, ear, lips, face, hands, arms, feet, legs and hairstyles. IV. Portfolio Development	30

Unit II	V. High-end rendering i. Photo analysis for rendering of draped garment ii. Draping and rendering different clothing categories using different coloring medium VI. Developing a collection i. Inspiration board ii. Mood board iii. Colour board iv. Story board v. Swatch board vi. Design development board vii. Designing a collection of minimum 5 garments viii. Tech-spec sheets VII. Introduction to fashion figure drawing - Men's and kids VIII. Portfolio Development	30
	Total Hours	60

References:

1. Abling, B. (2000), *Fashion Rendering with Color*, Prentice Hall
2. Abling, B. (2017), *Fashion Flats and Technical Drawing*, Bloomsbury Academic USA
3. Abling, B. (2019), *Fashion Sketchbook*, Fairchild Books
4. Arellano, C. et. Al., (2014), *Costume Design and Illustration Design Studio Press*
5. Brambatti, M. (2017), *Fashion Illustration and Design: Methods & Techniques for Achieving Professional Results*, Promopress
6. Bryant, M.W. (2016), *Fashion Drawing- 2nd Edition*, Laurence King Publishing
7. Calderin, J. (2012), *Fashion Design Essentials: 100 Principles of Fashion Design*, Rockport Publishers
8. Collussy, M.K. and Greenberg, S. (2008), *Rendering Fashion, Fabrics & Prints- 2nd Edition*, Prentice Hall
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Evaluation:

2 CREDITS COURSE FOR TOTAL MARKS OF 50		
CONTINUOUS INTERNAL EVALUATION:		Marks
Internal Assessment during laboratory work		10
Stage-wise assessment of class work on thematic presentations with forecasted colour trends		10
Class participation, Portfolio Development & Presentation		5
Total Marks for CIE		25
SEMESTER-END PRACTICAL EXAMINATION		
All questions are compulsory with internal choice.		
Question No.	Unit Content	Marks
Question 1	Unit 1	10
Question 2	Unit 2	10
Journal/Portfolio and Viva Voce		05
Total Marks for Semester End Examination		25
TOTAL MARKS FOR THE COURSE		50

Programme Name: M.Sc. Home Science (Semester II) On the Job Training

Total Credits	04
Internal Assessment	50
External Assessment	50
Course Name:	On Job Training
Course Code	TFT02C6
Total Marks	100

Course Objectives:

- On Job training (OJT) is an integral component of the M.Sc. Home Science Programme that enables students to learn with a unique opportunity to bridge the gap between theoretical knowledge gained in the classroom and practical application in a real work setting.
- It enables students to aim at acquiring industry or work-related skills including technical and soft skills that are essential for success in the industry/field.
- By participating in OJT, students are enabled to apply the concepts and theories learned during their coursework to real work/industry scenarios. They gain hands-on experience, problem-solving skills, and a deeper understanding of how the industry operates. This practical exposure enhances their competence and confidence, preparing them to tackle the challenges that they may encounter in their professional careers.

Course Outcome:

- From an organizational perspective, hosting OJT programs allows companies to gain insights into the curriculum and content of the M.Sc. Home Science program. They can provide valuable feedback on the relevance of the coursework and industry requirements, enabling academic institutions to continually improve the programme's alignment with industry needs. This collaboration between academia and industry fosters a mutually beneficial relationship, ensuring that graduates are well-prepared for the job market.
- Moreover, OJT benefits the faculty members involved in the programme. They have the opportunity to gain first-hand exposure to the industry and observe the type of work being performed. This experience enables them to enhance their teaching methodologies and delivery techniques, ensuring that they remain up-to-date with the latest industry practices. The insights gained from OJT also enable faculty members to provide relevant guidance and mentorship to students, preparing them for successful careers in the field of home science within their chosen specialisation.

ENHANCING PRACTICAL SKILLS THROUGH OJT

- The On-the-Job Training (OJT) program spans 4-6 weeks, requiring a minimum of 120 hours of physical presence at the organization or as recommended by the interning organization.
- Students are expected to find their own OJT placements, although the institution provides support and guidance in securing positions with reputable organizations.
- OJT must be conducted outside the home institution to expose students to real-world work environments.
- OJT covers any subject within the syllabus, allowing students to align their experience with their academic interests.
- In recognition of changing dynamics, some OJT sessions can be conducted online to accommodate virtual work environments.
- OJT will offer students the opportunity to apply classroom learning in a real-world setting, fostering the development of technical and non-technical skills.
- Mutual Benefits: Organizations gain insights into the program's curriculum and industry requirements, enabling them to provide constructive feedback and enhance course relevance.
- OJT bridges the gap between theoretical knowledge and practical application, preparing students for successful careers in home science

INTERNING ORGANIZATIONS:

Students have the flexibility to pursue their OJT in various types of organizations, including but not limited to:

Fashion Designing (for example)

- Aditya Birla Fashion & Retail
- Libas Designs
- Mod Art
- Purple Style Labs
- Pernia's Pop-Up Store
- AND
- Rutu's Collection, etc.

Merchandising (for example)

- Saibaba Exports
- Vrijesh Exports Pvt. Ltd
- Spykar Lifestyles
- Permeshwar Fashions
- The Shirt Company
- Truckers London Clothing Company
- Avon Lace House, etc.

Quality Control & Assurance (for example)

- Bombay Textile Research Association
- Texan Labs
- Eco Lab
- Textile Committee
- Testex India Laboratories
- Laxmi Analytical Laboratories, etc.

Research (for example)

- CIRCOT
- Wool Research Organization, etc.

Computer Aided Designing / Manufacturing (for example)

- Creative Garments
- CAD Creation Apparels
- CAD CAM Planet
- Textronics

Home Décor (for example)

- D'Décor
- Onnyx Curios
- Good Earth
- Homesara Décor, etc

NGOs (for example)

- Tisser-Hand to Heart Art & Craft
- SEVA
- Dastkari Haat Samiti
- Craft Revival Trust. etc.

ROLE OF OJT MENTORS:

- To enhance the learning experience and ensure the quality of the MSc programme, each student participating in the OJT will be assigned two mentors:
 - i. A faculty mentor from the institution
 - ii. An industry mentor from the organization where the student is interning.
- By having both an industry mentor and a faculty mentor, students benefit from a comprehensive guidance system that combines industry expertise and academic support.

Role of Industry Mentor:

The industry mentor plays a crucial role in:

- Guiding the student during the internship.
- Ensuring that the intern fulfils the requirements of the organization and successfully meets the demands of the assigned project.
- Providing valuable insights into real-work practices and industry expectations through their expertise and experience.

Role of Faculty Mentor:

The faculty mentor serves as the overall coordinator of the OJT program.

- Oversees the entire internship process
- Evaluate the quality of the OJT in a consistent manner across all students.
- Ensures that the OJT aligns with the programme objectives by providing valuable learning opportunities.
- Facilitates communication between the institution, industry mentor, and student ensuring a fruitful OJT experience.

SUBMISSION OF DOCUMENTATION FOR OJT

The student will make two documents as part of the OJT

Online Diary: This ensures that the student updates daily activity, which could be accessed by both the mentors. Daily entry can be of 3- 4 sentences giving a very brief account of the learning/activities/interaction taken place. The faculty mentor will be monitoring the entries in the diary regularly as shown in Appendix-I

OJT Report: A student is expected to make a report based on the OJT he or she has done in an organization. It should contain the following:

Certificate: A certificate in the prescribed Performa (given in Appendix II and Appendix III) from the organization where the OJT was done.

Title: A suitable title giving the idea about what work the student has performed during the OJT.

Description of the organization: A small description of the organization where the student has interned.

- Description of the activities done by the section where the intern has worked: A description of the section or cell of the organization where the intern worked. This should give an idea about the type of activity a new employee is expected to do in that section of the organization.
- Description of work allotted and done by the intern: A detailed description of the work allotted, and actual work performed by the intern during the OJT (Online/In Person/Onsite) period. It shall be the condensed and structured version of the daily report mentioned in the online diary.

Self-assessment: A self-assessment by the intern on what he or she has learned during the OJT period. It shall contain both technical as well as interpersonal skills learned in the process.

Interaction between mentors:

- To ensure the smooth conduct of the OJT a meet-up involving the intern, industry mentor, and the faculty mentor will be scheduled as a mid-term review.
- The meeting can preferably be online to save time and resources.
- The meeting ensures the synergy between all stakeholders of the OJT.
- A typical meeting can be of around 15 minutes where at the initial stage the intern brief about the work and interaction goes for about 10 minutes.
- This can be followed by the interaction of the mentors in the absence of the intern.

This ensures that issues between the intern and the organization, if any, are resolved.

OJT WORKLOAD FOR THE FACULTY: Every student is provided with a faculty member as a mentor. So, a faculty mentor will have one or few students under him/her. A faculty mentor is the overall in charge of the OJT of the student. He/she constantly monitors the progress of the OJT by regularly overseeing the diary, interacting with the industry mentor, and guiding on the report writing etc. Considering the time and effort involved, a faculty mentor who is in-charge of 10-12 students shall be provided by a workload of 4 hours per week.

Evaluation of On-Job-Training Course (4 Credit Course)

INTERNAL EVALUATION	
• Online diary	25
• Mid-term interaction	25
Total Marks for Internal Evaluation	50
EXTERNAL EVALUATION	
• OJT Documentation	25
• Quality & Relevance	10
• OJT Viva	15
Total Marks for External Evaluation	50
TOTAL MARKS FOR THE COURSE	100

Appendix-I

(Maintain the weekly online diary for each week in the following format)

WEEK	Day Date	Name of the Topic/Module	Completed/Remarks
Date on completion of requisite hours	Signature of the Faculty Mentor		Signature of the Industry Mentor
	Seal of the University/ College		Stamp of the Industry/ Host organization

Appendix-II

(Proforma for the certificate for internship in official letter head)

This is to certify that Mr. /Ms. of
.....College/Institution worked as an intern as part
of his/her M.Sc. Programme in Home Science of University of Mumbai.

The particulars of internship are given below:

Internship starting date: _____ Internship ending date: _____

Actual number of days worked: _____

Tentative number of hours worked: _____ Hours

Broad area of work: _____

A small description of work done by the intern during the period:

Signature: _____

Name:

Designation:

Contact details:

Email: (Seal of the organization)

Appendix-III

(Proforma for the Evaluation of the intern by the industry mentor /to whom the intern was reporting in the organization)

Professional Evaluation of Intern

Name of Intern: _____

College/institution: _____

[Note: Give a score in the 1 to 5 scale by putting √ in the respective cells]

S.No.	Criteria for Evaluation	Excellent	Very Good	Good	Moderate	Satisfactory
1.	Attendance & Punctuality					
2.	Ability to work in a team					
3.	Written and oral communication skills					
4.	Problem solving skills					
5.	Ability to grasp new concepts					
6.	Technical skills in terms of technology, etc					
7.	Ability to complete the task					
8.	Quality of overall work done					

Comments:

Signature: _____

Name:

Designation:

Contact details:

Email:

(Seal of the organization)

Letter Grades and Grade Points

Semester GPA/ Programme CGPA/ Semester Programme	% of Marks	Alpha-Sign/ Letter Grade Result
9.00-10.00	90.0-100	O (Outstanding)
8.00-<9.00	80.0-<90.0	A+ (Excellent)
7.00-<8.00	70.0-<80.0	A (Very Good)
6.00-<7.00	60.0-<70.0	B+ (Good)
5.50-<6.00	55.0-<60.0	B (Above Average)
5.00-<5.50	50.0-<55.0	C (Average)
4.00-<5.00	40.0-<50.0	P (Pass)
Below 4.00	Below 40.0	F (Fail)
Ab (Absent)	-	Absent

Team for Creation of Syllabus

Name	College Name	Sign
Dr. Asha Mathew Principal	College of Home Science Nirmala Niketan	
Dr. Pratima Goyal Associate Professor & Head of Department Textile and Fashion Technology	College of Home Science Nirmala Niketan	
Prof. Dr. Vishaka Karnad Professor	College of Home Science Nirmala Niketan	
Dr. Ritu Madhan Associate Professor	College of Home Science Nirmala Niketan	
Dr. Neha Mulchandani Assistant Professor	College of Home Science Nirmala Niketan	
Ms. Vrinda Udiaver Assistant Professor	College of Home Science Nirmala Niketan	
Dr. Anjali Srivastava Assistant Professor	College of Home Science Nirmala Niketan	
Ms. Sanghmitra Navalgund Assistant Professor	College of Home Science Nirmala Niketan	
Ms. Vibhuti Khedekar Assistant Professor	College of Home Science Nirmala Niketan	

Sign of Chairperson
Ad-hoc Board of Studies in Home Science

Sign of Dean

Name of the Chairperson
Ad-hoc Board of Studies in Home Science

Name of the Dean

Name of Department
Textile & Fashion Technology

Name of the Faculty

Appendix B
Justification for
M.Sc. (Home Science–Textile & Fashion Technology)

1.	Necessity for starting the Programme:	The syllabus for M.Sc. (Home Science-Textile and Fashion Technology) has been formulated with great care in accordance with the National Education Policy (NEP 2020). The programme aims at imparting technical knowledge and hands-on skills. It enables learners to acquire advanced knowledge and skills that are life-oriented, career-oriented and community-oriented, towards building a profession for self-growth and societal welfare. As the textile sector and fashion industry is continuously evolving and the Indian market has the opportunity to expand nationally and globally, this programme will empower students through skill-building and knowledge enhancement so as to meet our nation's and global needs. This course has been planned with a foresight into the increasing demand for practical knowledge and skills required in the textile and fashion industry. It will provide gainful employment opportunities in the ever-expanding technology-driven fashion industry. It is an excellent blend of theory and practical and it has special relevance to Textile, Apparel and Fashion industries with advanced knowledge and experience in entrepreneurship skills, fieldwork, rural camp, internship, industrial visits, computer-aided designing, marketing and skills in textile and fashion technology related areas. The core areas include theoretical knowledge of Fibre Science, Colouration and Finishing, Marketing and Merchandising, Entrepreneurship, Management and Business Administration, Intellectual Property Rights, Garment Production Technology, Global Fashion Trend Forecasting, Technical Textiles. The key areas are framed to train students in practical skills for example Designing, Pattern Making and Garment Construction, Product Development, Home Textile Designing, Draping, Womenswear, Menswear, Accessory Development, World Textile Embroideries and Textile Crafts, Costume Styling, Textile Testing and Quality Assurance, Electives namely Fashion Photography and Videography, Fashion Writing, Surface Embellishments, Fashion Illustration, CAD for Apparel & Home Products. The programme is designed to train students with job relevant skills through laboratory work, on-the-job training and apprenticeship in textile testing
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		laboratories, sustainable start-ups and entrepreneurial ventures with NGOs and artisans. 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 textiles and costumes, handlooms, handicrafts, artisans and their craftsmanship and fosters appreciation through multicultural sensitivity. Research and statistics is included as an essential component of the course to develop an innovative and scientific temper. In addition to this, students are encouraged to undertake industry- and socially-relevant 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 Programme:	Yes
3.	Whether all the courses have commenced from the academic year 2023-24	M.Sc. (Home Science) in Textile and Fashion Technology shall commence from the academic Year 2023-24 SEM I and SEM II shall commence from the academic Year 2023-24 SEM III and SEM IV shall commence from the academic Year 2024-25
4.	The courses stand by the University are self-financed, whether adequate number of eligible permanent faculties available?	The courses are not self-financed and are conducted under the aided section. Adequate number of eligible permanent faculty are not recruited. Currently filled eight sanctioned posts, awaiting NOC for one sanctioned post
5.	The give details regarding the duration of the Course and is it possible to compress the course?	Two Years Full Time (Four Semesters) It is not possible to compress the course
6.	The intake capacity of each course and admissions given in the current academic year:	Intake capacity: 10 No. of admissions given in the current academic year:10

7.	Opportunities of Employability / Employment available after undertaking these courses:	The programme has multi-faceted dimensions of design and technical aspects of textile, apparel and fashion products. Students have ample employment and entrepreneurial opportunities. Students on graduation from M.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, self-employment and entrepreneurship. In addition, several students' progress to higher specialized education and research avenues. Several students also learn skills to begin their own start-ups or engage in entrepreneurship.
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Sd/-
Sign of the BOS
Chairman
Dr. Mira Desai
Ad-hoc Board of
Studies in
Home Science

Sd/-
Sign of the
Offg. Associate
Dean
Dr. C.A.Chakradeo
Faculty of
Interdisciplinary
Studies

Sd/-
Sign of the
Offg. Associate Dean
Dr. Kunal Ingle
Faculty of
Interdisciplinary
Studies

Sd/-
Sign of the
Offg. Dean
Prof. A. K. Singh
Faculty of
Interdisciplinary
Studies