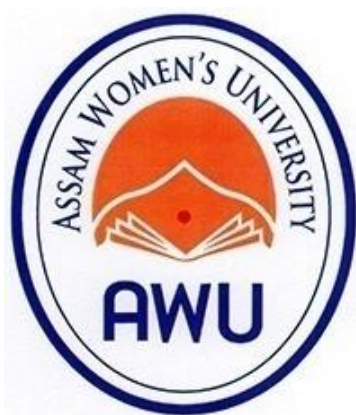


ASSAM WOMEN'S UNIVERSITY

Syllabus for Master of Fashion Technology

(Revised under CBCS)



Department of Fashion Technology

School of Media, Technology & Information Sciences

Assam Women's University

Rowriah, Jorhat-04

Assam Women's University

1. Department of Fashion Technology

The Department of Fashion Technology was established in the year 2014 under the School of Lifestyle and Design. The Post-Graduation Programme, Master of Fashion Technology is a course of 2 years duration aiming as providing advance skills in different subjects of Fashion Technology to the students. The course is a novel venture in the discipline of fashion as no other Government University in Assam offer PG Degree in this discipline.

2. Choice Based Credit System

The Choice based credit system (henceforth, CBCS) provides an opportunity for the students to choose courses from the prescribed courses comprising the core, elective, and skill-based courses. The courses can be evaluated following the grading system, which is better than the conventional marks system. Grading system provides uniformity in the evaluation and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations which enables the student to move across institutions of higher learning. The uniformity in the evaluation system also enables potential employers to assess the performance of the candidates.

Definitions:

1. **'Academic programme'** means the entire course of study comprising its structure, course details, evaluation schemes, etc.
2. **'Course'** means a segment of a subject that is part of an Academic Programme.
3. **'Programme structure'** means a list of courses (Core, Elective, open Elective) that makes up an Academic programme, specifying the syllabus, credits, hours of teaching, evaluation and examination schemes, minimum number of credits required for successful completion of the programme, *etc.*, prepared in conformity with Delhi University rules.
4. **'Core course'** means a course that a student admitted to the Master Fashion Technology programme must successfully complete receiving the degree and which cannot be substituted by any other course.

5. **‘Elective course’** means an optional course that is to be selected by a student out of a menu of such courses offered by the Fashion Technology Department.
6. **‘Generic Elective’** means an elective course that is available for students of all programmes, including students of the Fashion Technology Department. Students of the other departments may opt for these courses, subject to fulfillment of eligibility criteria has laid down by the Fashion Technology Department.
7. **Ability Enhancement Course(s):** Ability enhancement courses are the courses based upon the content that leads to Knowledge enhancement. These courses may be of two kinds: Ability Enhancement Compulsory courses (AECC) and Skill Enhancement Courses (SEC). These are mandatory for all disciplines. It is a Non CGPA course.
8. **Skill Enhancement Course(s):** These courses are designed to provide value-based/or skill bases knowledge and should contain both theory and lab/hands-on/training/field work. The main purpose of these courses is to provide students life-skills in hands on mode so as to increase their employability. It is a Non CGPA course.
9. **‘Credit’** means the value assigned to a course indicating the level and quantity of instruction as measured by instructor-student interaction.
10. **‘SGPA’** means Semester Grade Point Average calculated for individual semester.
11. **‘CGPA’** is the Cumulative Grade Points Average calculated for all courses completed by the students at any point in time. CGPA is calculated each year for both the semesters’ clubbed together.
12. **‘Grand CGPA’** is calculated in the last year of the course by clubbing together the CGPA of two years, i.e., four semesters.

Objectives of the Programme

- To enhance the curiosity and creativity of students.
- To develop the aesthetic, intellectual and technological proficiency of the students by integrating theory and practical knowledge.
- To blend useful practices with modern research in Fashion.
- To develop the spirit of entrepreneurship among the students.
- To promote consultancy with other Fashion Institutes and Organizations like Export Houses and Textile or Fashion Industry.

- To enhance the course work with active tie ups with highly reputed Fashion Research Centers or Industries for on-hand experiences.

Outcomes of the Programme

- The students will be benefitted with the knowledge about latest technologies to be in equilibrium with the theoretical aspects in the field of Fashion by employment of this course.
- The students will gain necessary knowledge which enables them to be self-sufficient or find employment in the developing garment industries as Fashion Designers, Merchandisers, Stylists, *etc.*
- The course provides hands-on experience right from conceptualization to skill development through Annual fashion shows, Exhibitions, Assignments and Project works.
- The course enables women students to pursue their PG Programme in Fashion related topics in the home state under the same roof by aiming towards women empowerment.

ACADEMIC PROGRAMMES AND STUDENT INTAKE

ACADEMIC PROGRAMME	STUDENT INTAKE
Master of Fashion Technology	30

Structure

The Post Graduate Programme in Fashion Technology shall be of four semesters covering two academic years. A student has to register at least 83 Credits in two academic sessions. The Master in Fashion Technology programme is spread over two years. Each year is divided into two semesters. The programme requires students to take a combination of Core courses, Elective courses, and Open Elective courses. . A student is required to complete a minimum of 83 credits for the completion of the programme and the award of the Post Graduate degree. Depending on the nature of the course, instruction consists of lectures combined with computer labs, tutorials, Practical etc. The labs provide students with the opportunity for hands-on learning of programming, entrepreneurial and skill development techniques. Tutorials are small-group interactions in a classroom setting that complement the lectures and support problem-solving related to the lectures. Practical classes are skill oriented for creative designing and Technological aspects.

- **Details of Courses in Fashion Technology Programme**

Semester	Core Courses (CC)	Discipline Specific Elective Courses(DSE)	Generic Courses(GEC/OEC)	Foundation Courses: Skill Enhancement Course(SEC) and Ability Enhancement Course(AEC)	
I	CC-1	DSEC-1 (Students will choose one course from a pool of courses)		SEC (Non CGPA Course)	AEC (Non CGPA Course)
	CC-2				
	CC-3				
II	CC-4	DSEC-2(Students will choose one course from a pool of courses)		SEC (Non CGPA Course)	AEC(Non CGPA Course)
	CC-5				
	CC-6				
III	CC-7	DSEC-3(Students will choose one course from a pool of courses)	GEC-1(Students will opt a course from other departments)		
	CC-8				
	CC-9				
IV	CC-10	DSEC-4(Students will choose one course from a pool of courses)	OEC/GEC-2(Students will opt a course from other departments)		
	CC-11				
	CC-12				

- Credit Distribution of Courses**

Semester	CC	DSEC	OEC/GEC	SEC	AEC	Total
I	1X5 2X4	1x4	0	1X2 (Non CGPA)	1X2(Non CGPA)	21
II	3X4	1x4	0	1X2 (Non CGPA)	1x2(Non CGPA)	20
III	3X4	1X4	1x4	0	0	20
IV	2X5 1X4	1X4	1x4	0	0	22

Total Credits: 83

- Course structure with distribution of credits**

Code	Course Name	L	T	P	CH	CR

1st Semester						
CC						
MFTC1401	Textile Studies-I	2	1	1	5	4
MFTC1402	Sketching and Fashion Illustration	1	1	2	6	4
MFTC1503	Pattern Making and Garment Construction-I	1	2	2	7	5
DSEC-1(One course from among MFTE1401, MFTE1402, MFTE1403, MFTE1404)						
MFTE1401	Fashion Industry and Sustainability	2	2	0	4	4
MFTE1402	Technical Textiles	2	1	1	5	4
MFTE1403	Recent Advances in Textile and Apparel Designing	1	1	2	6	4
MFTE1404	Apparel Industry Management	2	1	1	5	4
AEC						
MFTAE1201	Surface Ornamentation	0	1	1	3	2
SEC						
MFTSE1201	Advanced Printing Methods	0	1	1	3	2
						21
2nd Semester						
CC						
MFTC2401	Textile Studies-II	1	1	2	6	4
MFTC2402	Computer Aided Designing-I	1	1	2	6	4
MFTC2403	Research Methodology	3	1	0	4	4
DSEC-2(One course from among MFTE2401, MFTE2402, MFTE2403, MFTE2404)						
MFTE2401	Inspirational Fashion	1	1	2	6	4
MFTE2402	Non-Woven Textiles	2	1	1	5	4
MFTE2403	Fashion Forecasting	2	1	1	5	4
MFTE2404	Consumer Behavior Textiles and Apparel	1	1	2	6	4
AEC						
MFTAE2201	CAD Pattern Making, Grading and Construction Studies	0	1	1	3	2
SEC						
MFTSE2201	Fabric Surface Techniques	0	1	1	3	2
						20
3rd Semester						
CC						
MFTC3401	Advance Draping Techniques	0	2	2	6	4
MFTC3402	Computer Aided Designing-II	1	1	2	6	4

MFTC3403	Pattern Making and Garment Construction-II	1	1	2	6	4
DSEC-3(One course from among MFTE3401, MFTE3402, MFTE3403, MFTE3404)						
MFTE3401	Apparel Manufacturing Technology	1	1	2	6	4
MFTE3402	Computer Aided Textile Designing	0	2	2	6	4
MFTE3403	Advanced Pattern Making	1	1	2	6	4
MFTE3404	Garment Production Management	3	1	0	4	4
GEC-1/OE-1 (One course from amongMFTGE3401&MFTGE3402) (Students from other departments will opt this course)						
MFTGE3401	Principles of Fashion Design	1	1	2	6	4
MFTGE3402	Fundamentals of Apparel Design	1	1	2	6	4
						20
4th Semester						
CC						
MFTC4401	Design Collection & Fashion Show/Exhibition/Display	0	2	3	8	5
MFTC4402	Entrepreneurship	2	1	1	5	4
MFTC4403	Project/ Thesis/ Dissertation	0	0	5	10	5
DSEC-4(One course from among MFTE4401, MFTE4402, MFTE4403, MFTE4404)						
MFTE4401	Fashion Industry, Marketing & Management	1	1	2	6	4
MFTE4402	Textile Industry/Garment Industry and Trade	1	1	2	6	4
MFTE4403	Visual Merchandising and Retailing	2	1	1	5	4
MFTE4404	Functional Clothing/ Apparel	1	1	2	6	4
OEC/ GEC-2(One course from amongMFTGE4401&MFTGE4402)(Students from other departments will opt this course)						
MFTGE4401	Fashion Accessories	1	1	2	6	4
MFTGE4402	Home Furnishing	3	1	0	4	4
						22

Total Credits: 83

***L= Lecture, T= Tutorial, P= Practical, CH= Credit Hour, CR= Credit

1 Lecture/ Tutorial = 1 Hour

1 Practical = 2 Hours

Selection of Courses, Assessment and Examination:

- A student's choice of elective courses in each semester will be limited to those announced by the Department at the beginning of that semester. Each student is required to decide her choice of elective courses within two weeks of the start of each semester.

On account of infrastructural constraints, the Department may limit the number of students in an elective course, typically based on performance in a designated prior course. Such requirements will be announced at least one semester in advance. Elective courses may have prerequisites, which may be Core courses or Elective courses.

Teaching

The faculty of the Department is responsible for organising lecture , tutorial and practical work for the post graduate programme. There shall be 90 instructional days, excluding examinations, in a semester.

Assessment and examinations

English shall be the medium of instruction and examination. Assessment of a student's performance in a course shall be based on marks for Internal Assessment and the Final Examination in the relevant course, as per Assam Women's University's rules.

Marks, grades, and classes

Conversion of marks in courses into grade points, SGPA, CGPA, grand CGPA, and class will be done as per Assam Women's University rules.

Span period

No student shall be admitted as a candidate for the examination for any of the Parts/Semesters after the lapse of four years from the date of admission to the Part-I/Semester-I of the Masters- Fashion Technology Programme.

Internal assessment marks

Internal assessment will be based on multiple mid-term examinations, presentations, or projects. The appropriate mode of assessment for a course is chosen by the course instructor.

Assessment and examinations

English shall be the medium of instruction and examination. Assessment of a student's performance in a course shall be based on marks for Internal Assessment and the Final Examination in the relevant course, as per Assam Women's University's rules. There will be two phase of assessment, external and internal. The course bearing 100 marks will have 40 marks in internal components as-

10 marks in class test.

20 marks in mid-semester examination.

10 marks in Assignment/Presentation/ Group Discussion.

Rest of the 60 marks of the course will be for the end- semester examination.

Marks, grades, and classes

Conversion of marks in courses into grade points, SGPA, CGPA, grand CGPA, and class will be done as per Assam Women's University rules.

Span period

No student shall be admitted as a candidate for the examination for any of the

Parts/Semesters after the lapse of four years from the date of admission to the Part-I/Semester-I of the post graduate- Master in Fashion Technology Programme.

Internal assessment marks

Internal assessment will be based on multiple mid-term examinations, presentations, or projects. The appropriate mode of assessment for a course is chosen by the course instructor.

**ASSAM WOMEN'S UNIVERSITY
SEMESTER I**

Paper Title	Textile Studies - I	L	T	P	CH	CR
Paper Code	MFTC1401	2	1	1	5	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVES:

- To understand the tactile properties of various fibre, yarn and fabrics
- To enhance the knowledge regarding the behavioral characteristics of various fibre, yarn and fabrics in relation to end use.

Module 1: Introduction to Textile Fibres

(No. of classes required- 15)

Theory

- Introduction to fibre Science: Definition, Classification of textile fibres according to their nature and origin,
- Staple and filament fibres , Comparison of natural and manmade fibres.
- Production process of different fibres- Cotton, Silk, Wool, Polyester, Linen and blended fibres etc.
- Latest development intextile fibres- Spandex, Lycra, Hemp, Banana, Lyocell, Nano fibre etc.

Practical exercise

- Visual examination of fibres- Cellulose fibres, Protein fibre, Man-made fibre-
- Identification of fibres in a fabric sample through:
 - Burning test
 - Microscopic test-Cross sectional view, Longitudinal view.
 - Chemical test (Solubility Test)
- Analysis of physical properties of different fibres.

Module 2: Fibre properties

(No. of classes required- 13)

Theory

- Properties of different fibres (Physical, Chemical and Biological properties)
- Properties of different natural fibres:
 - Vegetable fibres –Cotton, Linen, Jute, Hemp, Ramie, Sisal etc.
 - Animal fibres – Silk, Wool, Mohair etc.
 - Mineral fibres – Glass, Asbestos, graphite etc.
- Properties of different Man-made fibres- Polyester, Nylon, Acrylic, Spandex. Viscose, Rayon.

Module 3: Introduction to yarn

(No. of classes required- 17)

Theory

- Terminologies,
- Types of yarn: Simple, fancy, textured, stretch and metallic yarns-uses, quality and applications.
- Yarn twist
- Preparation of yarn- Opening, Cleaning, Carding, Doubling, Combing, Drawing, Roving, Spinning.

- Types of Spinning - Ring spinning, Rotor spinning, Friction spinning, Air-jet spinning, Melt Spinning, Wet Spinning, Dry Spinning.
- Blending of yarn.

Practical exercise

- Visit to Spinning Mill or show relevant video films to understand the various systems of yarn spinning – staple, filament and spun filament yarns
- To analyze and understand fabric texture (appearance and hand) on the basis of the yarns used.

Module 4: Introduction to fabric

(No. of classes required- 07)

Theory

- Definition
- Elementary idea of the processes of conversion of yarn into fabric. i.e., weaving, knitting, non-woven
- Types of fabric construction: Woven, Knitted and Non-woven.

Practical exercise

- Preparation of samples: plain, satin, twill.

COURSE OUTCOMES:

C.O.1 The knowledge and skills related to textile science is essential to provide a comprehensive insight into the basic knowledge about fibres, yarns and

C.O.2 Relevant properties affecting the ultimate performance and use of fabrics by the consumer, hence the subject is included in the curriculum.

References:

- Fundamentals of Textiles and Their Care by Susheela Dantiyagi
- Textile Design: Theory and Concept by Charu Swami, New age international Ltd. Publishers, 2011
- Textiles and Fashion by Jenny Udale, Bloomsbury India, 2014
- Textile Science: An explanation of Fibre Properties by E.P.G. Gohl, L.D. Vilensky

**ASSAM WOMEN'S UNIVERSITY
SEMESTER I**

Paper Title	Sketching and Fashion Illustration	L	T	P	CH	CR
Paper Code	MFTC1402	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVES-

- To skill the students regarding how to make a design using lines, dot, shape and colour combination.
- Students will gain knowledge about the skill in fashion illustration and students will be able to illustrate different types of figures and dresses.

Course Outline –

Module 1 : Elements of Art

(No. of classes required- 18)

Theory

-Introduction to basic Elements of Art i.e. Line, Colour, Texture, Pattern and Shape

-Lines – Horizontal, vertical, zigzag, diagonal and curve.

-Colour – Dimensions of colour- hue, intensity and value, Colour wheel; primary, secondary and tertiary colours; Warm and cool colours; Tints, tone and shades; Different colour schemes- Analogous, Mono-chromatic, Complimentary, Achromatic and Split complimentary.

-Textures- Different types of textures, identification and suitability of textures for different garments.

-Shape :Geometrical - Realistic - Stylized - Abstract

-Different types of Silhouettes

Practical exercise

-Illustrate different type of lines: vertical, horizontal, diagonal, zigzag, curved, thick and thin

-Corresponding colour exercises on colour to be carried out such as colour wheel, tints, shades, colour schemes

-Collection of samples for different textures - thread pulling, thread crumple, thread rolling, paper dabbing, wax rubbing, wax drop, smoke, blade, leaf, flower, butterfly, lace, jute, thumb, matchstick, sponge, cabbage, potato, onion, chilly, lady finger, ink drop, ink blow, drop ink, batik, leather, dry brush, mesh, comb, cloth dabbing etc.,

-Sketching of different shapes

-Sketching of different Silhouettes

Module 2: Principles of design

(No. of classes required- 10)

Theory

-Principles of design- Repetition, gradation, dominance, unity, harmony, contrast, proportion, balance, rhythm- its effects in garment designing.

-Fashion terminology commonly used in the industry

-Classic and innovative fashion details- necklines, collars, sleeves, waistlines, cuffs, skirts, trousers, yokes, waistlines, pockets, etc.

Practical exercise

- Corresponding exercises with rhythm, harmony, proportion, balance and emphasis
- Illustrating innovative fashion details- necklines, collars, sleeves, waistlines, cuffs, skirts, trousers, yokes, waistlines, pockets, etc.

Module 3: Illustrating fashion figures

(No. of classes required- 14)

Theory

- Basic block figures
- Role of fashion illustrator in fashion industry
- Differences between Normal figure and fashion figures

Practical exercise

- Sketching basic 10 and 12 head fashion figure
- Fashion block figures with all kinds of poses
- Front View, Side View & Back View of Fashion Figure
- Basic croquis drawing- all sizes.
- Fleshing of block figures

Module 4: Rendering

(No. of classes required- 10)

Practical exercise

- Rendering of fashion figure
- Designing on varied themes, e.g., environment, seasons etc.
- Use of all kinds of colour mediums (charcoal, ink, Water Colour, water proof ink etc.)

COURSE OUTCOMES:

C.O.1. Students will acquire knowledge and skill on how to make a design using lines, dot, and shape and colour combination.

C.O.2 The students will be able to illustrate different types of figures and dresses.

References:

- Design Studies by Manmeet Sodhia. Kalyani Publishers
- Fashion Designers A-Z by Varie Steele, Suzy Menkes and Robert Nippoldt, Taschen; Multilingual edition, (May18,2018)
- Ireland Patrick John, Fashion Design Drawing &Presentation, Children, Men
- Ritu, Fashion Design illustrations
- Julian Seaman, Foundation in fashion design and illustration
- Zeshu Takamura, Fashion Illustration Techniques: A Super Reference Book for Beginners
- Abling Bina, “ Fashion Sketch Book”, 2006 by Fairchild Publication

ASSAM WOMEN'S UNIVERSITY

SEMESTER I

Paper Title	Patternmaking and garment Construction-I	L	T	P	CH	CR
Paper Code	MFTC1503	1	2	2	7	5

Minimum number of classes per week: 5

Minimum number of classes in a semester: 65

COURSE OBJECTIVES:

- **To impart knowledge of machines used for sewing.**
- **To impart knowledge about different aspects of Pattern Making**
- **To impart knowledge about various construction techniques and applying these techniques in garment construction.**

Module 1 Terminologies

(No. of classes required- 8)

Theory

- Terminologies used in clothing construction.
- Equipments used in clothing construction
- Introduction to Sewing machine, types and functions of sewing machine
- Common defects and care of sewing machine

Module 2 Preparation of Fabric

(No. of classes required- 7)

Theory

- Selection of fabric based on different garments
- Preparation of fabric for cutting
- Layout
- Fabric Cutting

Module 3 Basic hand stitches and Seam finishes

(No. of classes required- 16)

Practical

- Preparation of Samples of – Basic hand stitches
- Seam and edge finishes
- Disposal of fullness
- Neckline Finishes

Module 4 Functional Elements

(No. of classes required- 17)

Practical

- Preparation of Samples of - Placket Openings
- Pockets
- Fasteners
- Basic grain lines-straight, off and bias

Module 5 Design Variation

(No. of classes required- 17)

Practical

- Drafting and construction of sleeves- plain, puffed, leg o' mutton, cap, raglan, drop shoulder, epaulette, kimono, bell, bishop, lantern etc.

- Drafting and construction of Collars – Peter pan, sailors, shawl, shirt, Chinese, cowl, etc
- Preparation of Samples of Yokes and its Variations.

COURSE OUTCOME:

C.O.1. The students will be skilled enough to design and construct garments appropriately to customer's satisfaction and need.

References:

- Advanced Drafting & Draping by Manmeet Sodhia. Kalyani Publishers
- Basic Processes and clothing const. by Sherie Doongaji Rajj Prakashan
- Text book of clothing and textiles by Sushma Gupta Kalyani Publishers
- Pattern cutting made easy by Gillian Holman Batsford
- Garment const. skills by Premlata Malik Kalyani Publishers
- The Practical Encyclopedia of Sewing: By-Dorothy Wood: Lorenz Books
- The Complete Book of Sewing: Dorling Kindersley
- Sewing and Knitting: A Reader's Digest step –by-step guide
- Comparative Construction Techniques
- "Pattern making for fashion design", Helen Joseph Armstrong, Harper Collins, LA.
- Clothing Construction :Sherie Doongaji

Note:

- Size 10 Sloper to be used for all design variations.
- Size 7 sloper to be used for kid's basic pattern
- File should be made using full scale patterns (A3 size) and Basic slopers should also be transferred to ivory sheet.

ASSAM WOMEN'S UNIVERSITY

SEMESTER I

Paper Title	Fashion Industry and Sustainability	L	T	P	CH	CR
Paper Code	MFTE1401	2	2	0	4	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVES:

This particular paper will enable the students-

- To Understand the concept of fashion industry and its sustainability
- To learn about the concept of sustainability in clothing industry
- To learn about relations of Fashion industry and Environment
- To understand about Sustainable Business Strategies

Module 1: Fashion sustainability

(No. of classes required- 10)

Theory

- Introduction- Fashion, Sustainability, Pillars of sustainability.
- Sustainable fashion-Meaning-Importance-Need- Social, Economic and Environmental concerns related to fashion.
- Business models for sustainable fashion-Sustainable clothing- Sustainable consumption practices for enhanced product life.
- Sustainability in fashion-Benefits and challenges.

Module 2: Sustainability in Clothing Industry

(No. of classes required- 18)

Theory

- Recycling and upcycling- Concepts and benefits- Carbon footprint, water footprint and energy consumption of fashion industry.
- Sustainability in Clothing Industry -Clothing lifecycle, fast and slow fashion, clothes repair and re-use.
- Concept of Zero waste fashion design-Product service system (PSS) for sustainable fashion
- PSS design thinking and PSS consumer adoption - Multi-life Garments through Modular Structures and Supplemental Services
- Consumer engagement and business innovation.
- Sustainable fashion designers, sustainable fashion brands, Eco-friendly fashion labels

Module 3: Fashion Industry and Environment

(No. of classes required- 18)

Theory

- Fashion and Environment -Fashion's environmental impact -Water pollution, water consumption, Micro fiber pollution, Waste and disposal, chemical usage, carbon emissions, soil degradation.
- Reducing environmental impact in fashion industry-buy less, buy clothes from sustainable brands, buy better quality, think before disposal, buy second hand, swap and rent clothing, cloth washing practice.

Module 4: Sustainable Business Strategies

(No. of classes required- 06)

Theory

- Sustainable Business Strategies - Environmentally Friendly Operation Strategies - Design for environment, environmental management systems, product stewardship programs, supplychain management, total quality management and Just-in-time.
- Marketing Mix for GreenProducts-Product, place, promotion, price
- Product Life Cycle in Fashion Industry- Materials,Production, Distribution and Transportation, Product Use, End of Use.
- Textile recycling-Available recycle options - convenience of recycle options- Re-design solution package.
- Consumer behaviors and attitudes- Media and information reliability, Green clothes and information credibility.

COURSE OUTCOME:

CO1 The students will be aware of the Fashion industry and its sustainability in clothing industry

CO2 Acquaint them about analyzing Fashion industry and Environment.

References:

- Yamase K, Cut up Couture- Edgy Upcycled Garments to Sew, Interweave, 2012.
- Fletcher K, Sustainable Fashion and Textiles- A Design Journey, Lawrence King Publishing,2008.
- Phillips J,Create,SustainableLuxe- A Guide to Feel Good Fashion, Space Publishing, 2013.

Online Reference

- <https://www.coursera.org/learn/sustainable-fashion>
- <https://www.edx.org/course/circular-fashion-in-a-sustainable-clothingindustry>
- <https://www.my-mooc.com/en/mooc/sustainable-fashion/>
- <https://www.sustainablefashionmatterz.com/what-is-sustainable-fashion>

ASSAM WOMEN'S UNIVERSITY

SEMESTER-I

Paper Title	Technical Textiles	L	T	P	CH	CR
Paper Code	MFTE1402	2	1	1	5	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVES:

To acquaint the students with the techniques of development in nano fiber and micro fibers and study the recent development in the field of technical textiles.

Module1 Introduction to Technical Textile (No. Of classes required- 13)

Theory

- Introduction
- Definition of technical textiles
- Developments in Nano-fibre and microfiber non-woven; importance and classification of technical textiles
- Types of fibers, materials.

Module 2: Medical, Automotive and Industrial Textiles (No. Of classes required- 13)

- Medical Textiles: Introduction, Fibers used, properties, Classification of medical textiles and applications.
- Automotive textiles: Introduction, textiles in cars, other road vehicles, rail applications, textiles in aircrafts marine application, future prospects.
- Industrial textiles: Introduction, types and properties, applications.

Module 3: Smart textiles (No. Of classes required- 13)

Geo Textiles-

- Agro textiles; geo-textiles; Phase Change Materials; Shape Memory Materials; -Chromic Materials; Smart textiles – factors affecting the selection and uses.

Module 4: (No. Of classes required- 13)

Practical

- Conductive materials and other functional materials characteristics and its applications.
- Practical Survey of available technical textiles; development of library of technical textiles; Project work.

- ❖ Visit to Technical Textile units.

COURSE OUTCOME:

C.O.1 The students will be able to know acquire knowledge about the classification of technical textiles and

C.O.2 Study the importance of Technical Textile in the fashion world.

References:

- Allison Mathews 1994. Medical and Hygiene Textile Production. Intermediate
• Technology Publ. Cookling Gerry 1997. Garment Technology for Fashion Designers.
Blackwell Science
.• Padmanabhan AR. 1988. A Practical Guide to Textile Testing. SITRA, Coimbatore. •
Prentice Hall. Skinkle JH. 1972. Textile Testing. D.B. Taraporewala.

ASSAM WOMEN'S UNIVERSITY

SEMESTER-I

Paper Title	Recent Advances in Textile and Apparel Designing	L	T	P	CH	CR
Paper Code	MFTE1403	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVES:

- To provide in-depth knowledge of latest developments in textile and apparel designing and help them to identify thrust areas of research.

MODULE: 1 Textile materials

(No. Of classes required- 10)

- Introduction to world's sources of textile fibers (natural and manmade) and their utilization
General classification of fibers.
- Essential properties and uses of various varieties of cotton. Introduction to bast fibers; Flex, Jute, Hemp and Rammie.
- Introduction to natural silk. Rearing of silk worm. Properties and uses of various types of silk, silk reeling, Throwing and weighting.
- Introduction to wool-merino Mohair, Kashmir, Camel and alpaca. sorting and grading of wool. Introduction to wool fiber and elementary idea of different wool.
- Introduction to specialized fibers and technical textiles. Properties of specialized fibres such as Glass fiber, Cabiler fiber Aramide fiber, etc.

MODULE: 2 Synthetic and Regenerated Fibers

(No. Of classes required-10)

- Introduction to Manmade fibers such as Nylons, Terelene, Acrylic and Rayon - Viscose, Acetate and Cupramonium.
- Introduction various to blends of the fibers, care of fabrics, spots removing, types of removing agent.
- Recent researches in production and manufacture of textile fibers, yarns and fabrics.
- Chemical processing of natural and synthetic textiles and their conversion into clothing.

MODULE: 3 Functional Textile

(No. Of classes required- 10)

- Developments in the field of functional textiles and clothing; use of special techniques in textile processing.

MODULE: 4 Smart Textiles

(No. Of classes required- 12)

- Smart Textiles: components, Classification: active smart, passive smart and ultra smart textiles and their applications. Intelligent Textiles: phase change materials, shape memory polymers, chromic and conductive materials and their applications.

MODULE: 4

(No. Of classes required- 10)

- Thrust areas of contemporary research and future projections.

COURSE OUTCOME:

C.O.1 To impart knowledge regarding the origin and development of textiles.

C.O.2 To make the students aware of the basic textiles design concepts and fashion theories.

References:

- Fundamental of Textiles and their Care by Sushila Dhantyagi
- Handbook of Technical Textile, A. R. Horrocks and S. C. Anand, Woodhead Publishing Ltd. 2000
- Textile Fabrics and Their Selection by Sabel B. Wintate
- Textile Products Selection Use and Care by Alexander

**ASSAM WOMEN'S UNIVERSITY
SEMESTER-I**

Paper Title	Apparel Industry Management	L	T	P	CH	CR
Paper Code	MFTE1404	2	1	1	5	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVE:

- To introduce the students to various trends in management of garment industry and understand various export and import policies.

MODULE 1

(No. of classes required- 10)

Theory

- Complexity of management in garment industries- Objective and expectations;
- Status of garment industry in India-production, marketing, distribution, consumption and export trends over last five years.

Module 2

(No. of classes required- 12)

Theory

- Personnel management in domestic and export apparel industry
- Techniques in managerial application of cost-volume-profit analysis; productivity analysis
- Technology up gradation of apparel units - CAD & CAM; productivity rate.

Module 3

(No. of classes required- 10)

Theory

- Government policies in export and imports
- Effect of trade globalization;
- Problems of apparel industry and remedial measures.

Module 4

(No. of classes required- 07)

Theory

- Trends in management,
- Infrastructure facilities and incentives offered for starting a garment industry.

Practical exercise

(No. of classes required- 13)

- Practical Visit & survey in domestic and export garment industries that produce shirts, trousers & women's garments;
- Compilation of data as per the labour & machinery output;
- Drawing floor plans of the industries; Analysis of garment industries in terms of inputs and outputs;
- Determination of productivity of the industry & comparison;
- SWOT analysis of the industries.

COURSE OUTCOMES:

C.O.1 After studying this course the students will understand marketing in domestic and international markets and their quota systems.

C.O.2 This course focuses attention on apparel industry giving thorough knowledge of merchandizing.

References:

- Gerry Cooklin. 1991. Introduction to Clothing Manufacture. Blackwell.
- Gerry Cooklin. 1997. Garment Technology for Fashion Designer's. Blackwell.
- Jacob Solinger 1980. Apparel Manufacture. Van NostrandReifold.
- Pradeep V Mehta 1998. Managing Quality in Apparel Industry. New Age International.
- Ruth Glock 1990. Apparel Manufacturing. Macmillan.

ASSAM WOMEN'S UNIVERSITY
SEMESTER I

Paper Title	Surface Ornamentation	L	T	P	CH	CR
Paper Code	MFTAE1201	0	1	1	3	2

Minimum number of classes per week: 2

Minimum number of classes in a semester: 26

COURSE OBJECTIVES –

- To enable students learn methods of surface ornamentation of fabric using different techniques to produce value-added products.
- To enable the students to develop practical skills in needle craft techniques.

MODULE : Basic and Different Embroidery Stitches (No. of classes required- 13)

Practical exercise

- Different basic and contemporary embroidery stitches.
- Introduction to traditional embroidery stitches of India (Kasida, Chickankari, Kantha, Phulkari, Chambarumal, Kathiawar, Kutch, Sindhi, gold and silver embroidery and preparation of samples)

MODULE 2: Dyeing and Printing (No. of classes required- 13)

Practical exercise

- Understanding the processes of Tie and dye, batik printing, screen printing and block printing
- Preparation of samples of all processes of Tie and dye,
- Preparation of sample of batik printing- wax resistant dyeing
- Preparation of a sample of block printing.

Assignment for students:

Develop designs on garments for surface enrichment of neckline/waistline/ sleeves/ hemline/ collars/plackets around buttons or button hole/pockets using the above learnt embellishment techniques.

COURSE OUTCOMES:

C.O.1 A one will be learn about the basic knowledge of embroidery stitches and with the help of them students will be able to create different traditional designs.

C.O.2 After getting the knowledge of printing and dyeing a one can create her social account of earning source.

References:

- Traditional Embroideries of India by Shailja D. Naik published by M/S APHPublishing Book Centre, New Delhi
 - Creative Art of Embroidery by Snook Barbara, Numbly Pub. Group ltd. London
 - Textiles and Embroideries of India by Anand M. R., Marg Publications, Bombay

- Vogue Dictionary of crochet Stitches bt Mathew Anne, Davidb and Charles, London

ASSAM WOMEN'S UNIVERSITY
SEMESTER I

Paper Title	Advanced Printing Methods	L	T	P	CH	CR
Paper Code	MFTSE1201	0	1	1	3	2

Minimum number of classes per week: 2

Minimum number of classes in a semester: 26

COURSE OBJECTIVES –

- To understand different techniques of hand printing and historical background.
- To understand the different methods of transferring the designs on fabric.

MODULE 1: Colour Media

(No. of classes required- 06)

Practical

- Basic water colour (still life, one object)
- Use of different colour media: shading pencils, water & poster colors, steadtlers, Charcoal pencils & water proof ink.
- Transferring Design on Fabrics.

MODULE 2: Tools and Equipments

(No. of classes required- 05)

- Tools and material used for printing,
- Methods of fabric painting, Glass printing, Nib painting and Cone printing.
- Floral motifs- development of motifs on fabric.
- Abstract printing

MODULE 3: Traditional Printing styles of India

(No. of classes required- 10)

- Brief about traditional hand painting styles of India
 - Madhubani Painting.
 - Warli Painting.
 - Kalighat Painting.
 - Phad painting.
 - Miniature Painting.
 - Gond Painting.
 - Kerala Murals.
 - Patachitra painting.

- Preparation of sample of all above painting styles

MODULE 3: Different Printing Methods

(No. of classes required- 05)

- Hand print: Tie and Dye, Block, Batiks, Screen, Stencil.
- Machine print: Roller Printing, Emboss Print.

- Preparation of sample of Tie and Dye printing(5 samples)
- Preparation of sample of Block printing(5 samples)

COURSE OUTCOMES:

C.O.1. In this course the students will be introduced to Hand Painting and

C.O.2. Printing Techniques, its historical Background and material required for both the techniques.

C.O.3. Course will help the students to learn and implement different ways to make their collection.

References:

- Printed Textile Design by Amanda Briggs-Goode, Laurence King publishing, illustrated edition (October 22, 2013)
- Indian Painting: The Great Mural Tradition by Seth Mira.
- Block Printed Textiles of India: by Eiluned Edwards, Niyogi Books; First edition (20 December 2015)

ASSAM WOMEN'S UNIVERSITY
SEMESTER II

Paper Title	Textile Studies - II	L	T	P	CH	CR
Paper Code	MFTC2401	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

Course objectives:

- To develop knowledge about the woven fabric formation, knitted and different types of weaves.
- To analyze a fabric and learn the principles of creating textile designs and enable students to gain practical knowledge in textile studies and its application in the industry.

Module I: Weaving

(No. of classes required- 16)

Theory

- Definition
- Types of weave- Jacquard, bird's eye, basket, ribbed crepe, pile, lappet, dobby, and leno and cut pile.
- Working of looms-primary, secondary and auxiliary motions.
- Types of looms- automatic and shuttle less.
- Design interpretation and representation- draft and peg plan and their types.
- Properties of woven fabrics and their usage
- Weaving defects

Practical exercise

- To identify the woven fabrics for:
 - a) Warp and weft
 - b) Face and back
 - c) Prepare a point-paper diagram of basic weaves and their variations
 - d) Preparation of punch card
 - e) Prepare a list of fabrics available under each category of weave
- Preparing samples for different types of weaves/ weaving designs – plain, satin, sateen and twill
- Visit to a weaving unit and industry to understand different weaving machines and processes
- Educational tour related to weaving industry

Assignment for students-

Collect information about latest advanced technologies used in weaving machines.

Module II: Knitting

(No. of classes required- 16)

Theory

- Definition
- Classification: warp and weft knitting

- Weft knitting-Plain, Purl, Rib and interlock
- Warp knitting-Tricot and Raschel
- Flat and socks knitting – principles - Uses and Properties
- Comparison between warp and weft knitting.
- Latest innovation in knitting technology.

Practical exercise

- Identify and analyze different type of knits samples and enlist their characteristics (design)
- Preparing samples for warp and weft knitting.
- Visit to a knitting unit to understand different knitting machines and processes

Assignment for students-

- Collect the information about different knitting machines.
- Collect swatches for different knitted fabrics available in the market.

Module III: Non-woven textiles

(No. of classes required- 10)

Theory

- Introduction to Non-woven fabrics – Definition, Classification.
- Method of production of non-woven fabrics- web formation, bonding the web, needle Punching the web, finishing.
- Characteristics of non-woven fabrics
- Uses of non-woven fabrics.

Practical exercise

- Decorative fabric construction- braiding, netting, lace, crochet, tatting
- Collecting samples for different non-woven fabrics.

Module IV: Methods of Fabric Construction

(No. of classes required- 10)

Theory

- Essential properties of fabric
- Comparative studies of the woven and knitted fabrics- construction and advantages of each.
- Elementary idea of machinery used in woven, knitted and non-woven fabrics.

Practical exercise

- Prepare a catalogue of fabric samples made by using different methods of fabric construction.
- Different fabric finishes

COURSE OUTCOMES:

- C.O.1.** This course will improve the knowledge and skills of students related to textile science.
- C.O.2.** To provide a comprehensive insight into the basic knowledge about fabric structure.
- C.O.3** Different methods of fabric construction, and Latest innovations in the textile industry.
- C.O.4** Learn to draw complete design, draft and peg plan for basic and advanced woven fabric swatches.

References:

- Fabric Studies by KVP Singh Kalyani Publishers
- Textiles- fiber to fabric by Bernard P. Corbman McGraw- Hill
- Textile fibers, dyes, finishes, and processes by Needles, Howard L.
 - Fundamentals of Textiles and Their Care by Susheela Dantyagi
 - Textile Design: Theory and Concept by Charu Swami, New age international Ltd. Publishers, 2011

- Textiles and Fashion by Jenny Udale, Bloomsbury India, 2014
- Textile Science: An explanation of Fibre Properties by E.P.G. Gohl, L.D. Vilensky

ASSAM WOMEN'S UNIVERSITY
SEMESTER II

Paper Title	Computer Aided Designing-I	L	T	P	CH	CR
Paper Code	MFTC2402	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

Course objectives:

- To help students to understand the fundamentals and principles of CAD.
- To enhance the knowledge of CAD and its application.

Course Outline –

Module I: Computer Graphics

(No. of classes required- 13)

Theory:

- Introduction to Graphics and Graphics Devices: Computer Graphics, Graphics Output Devices and their general properties like (Resolution and color capability), Graphics Input Devices. Drawing Geometry. Introduction to Coordinate Frames and Color Theory Points, Vectors and Lines. Two Dimensional Cartesian reference frames, Screen Coordinates, Three dimensional Cartesian reference frames.
- Introduction to Color Theory: Introduction to Color Modes, Working with different color models and modes,

Practical exercise

- Using custom colors, Picking colors, Analyzing and editing colors, Looking at gamut issues, Creating duotones, Setting color balance, Setting hue and saturation, Adjusting brightness and contrast, Working with histograms, Retouching images, Color ranges and replace color options, Cropping images, Understanding Process and spot colors, Choosing pantone colors, Applying fill and stroke colors, Mastering Computer Graphics

Module II: Corel Draw

(No. of classes required- 12)

Theory:

- Skill using Corel Draw: Introduction to CorelDraw.
- Introduction to Vector and Raster Graphics Type.

Practical exercise

- Starting CorelDraw, Introduction to Corel Draw Menu, Introduction to CorelDraw Page Setup.
- Introduction to various tools of CorelDraw Working with Shapes, Lines, Texts & Objects. Creating rectangles, squares, Circles, Ellipses, Polygons, Stars and Spirals , Selecting Fill and Outlines to any shape. Moving & Rotating Shapes freely and to Fixed angles. Drawing Curve and Straight Lines, Creating Simple and Artistic Texts. Formatting Texts by changing Font, Size and Shape of Text. Rotating texts, Assigning a Fill Color to text, Assigning outline color to text. Creating Paragraph Text, Aligning Texts, and Adjusting Line & Letter Spacing in the Paragraph text. Spell checking and finding and replacing texts. Selecting Single and

Multiple Objects, Duplicating Objects, Grouping Objects, Trimming Objects, Locking and Unlocking Objects, Aligning Objects

Module III: Tools and Their Functions

(No. of classes required- 10)

Practical exercise

- Working with outlines and Fills: Introduction to outlines, Defining outline width using Outline Flyout, Outline, Pen Dialog Box, Setting the Line Cap Style, Changing the Outline Color. Introduction to Fills, Uniform Fill, Fountain Fill, Two-Color Fountain Fill, Preset, Fountain Fill, Pattern Fills, Two-Color, Full Color and Bitmap Pattern Fills, Texture Fills, PostScript texture Fills.
- Working with Curves: Introduction to Curves, Nodes and Segments, Drawing Freehand Tools, Drawing Closed Curves, Curved Objects, Selecting Node on a Curved Object, Adding, Removing and Joining Nodes. Bezier Tool, Drawing Curve with Bezier Tool, Drawing Straight Line with Bezier Tools Drawing with Artistic Media Tools using Preset and Brush Mode. Calligraphic Mode, Pressure- Sensitive Mode, Object Sprayer.

Module IV: Effects of Tools

(No. of classes required- 10)

Practical exercise

- Special Effects: Introduction to Special Effects, Blending Tool, Contouring Objects, Distorting Objects, Envelop Tool, Extruding of the object, Vector Extrusion. Drop Shadow, Creating Drop Shadow, Changing Color of Drop Shadows, Removing Drop Shadows. Applying Lenses, Applying Perspectives. Filters, Gradients, Patterns, Textures, Swatches effects Layouts (Development of different types of Boards) Drawing Basic Male, Female and Kids Figure in Corel Draw with Grids and Guidelines and converting them into Objects. Drawing Basic Figure Forms (Legs, Arms, Heat etc.) with Grids and Guidelines

Module V: Printing and Exporting

(No. of classes required- 07)

Practical exercise

- Printing and Exporting of files: Converting them into Objects. Saving and Exporting Images. File formats, opening, saving, importing, exporting, compression, printing, saving for Web, publishing as PDF, exporting images with transparency Printing Images.

Assignment for students-

Documentation of all processes in one project report to be submitted the course instructor.

COURSE OUTCOMES:

C.O.1: To empower students with the knowledge of CAD and their applications so they can execute their ideas creatively through CAD.

C.O.2: To describe the Corel draw work space, tools, shortcut keys and file formats.

C.O.3: To perform application of colours, colour swatches and various fill options by applying tracing and drawing tools.

C.O.4: To draw Basic Figure Forms with Grids and Guidelines

Reference:

- Corel Draw 12: The Official Guide, Steve Bain, Dreamtech press, 2004

- CAD/CAM Computer Aided Design & Manufacturing by Mikell P Groover&Mory W Zimmers. Jr, Pearson Education Pub.2000

- Fashion Design on Computers by M. Kathleen Colursy, Prentice hall.2004
- CAD for fashion design by Renee Weiss Chase, Prentice hall Pub.

ASSAM WOMEN'S UNIVERSITY
SEMESTER -II

Paper Title	Research methodology	L	T	P	CH	CR
Paper Code	MFTC2403	3	1	0	4	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

Course objectives:

- To familiarize students with the various types of research, data collection & analysis of research.

Course Outline –

Module I: Fundamental Concepts of Research (No. of classes required- 13)

Theory

- Research – Meaning, objectives and motivation of research.
- Types of research - Fundamental vs. Applied. Descriptive, Applied, Quantitative, Qualitative, Conceptual, Empirical.
- Concept of researchable problem – research prioritization – selection of research problem.
- Approach to research – research process.
- Criteria of good research.

Module II: Hypothesis (No. of classes required- 13)

Theory

- Hypothesis – meaning - characteristics - types of hypotheses
- Review of literature
- Setting of Course Objective and hypotheses - testing of hypotheses.

Module III: Research Design (No. of classes required- 13)

Theory

- Sampling theory and sampling design – sampling error –
- Methods of sampling – probability and non-probability sampling methods
- Criteria to choose samples.
- Research Designs: Meaning, need for research design ,Concepts relating to research design

Module IV: Research Methods and Tools (No. of classes required- 13)

Theory

- Data collection – assessment of data needs – sources of data collection –discussion of different situations.
- Mailed questionnaire and interview schedule – structured, unstructured, open ended and closed-ended questions.
- Preparation of schedule, Interviewing techniques and field problems
- Methods of conducting survey – Reconnaissance survey and Pre testing.
- Scaling techniques.

Module V: Report Writing and Statistics

(No. of classes required- 12)

Theory

- Coding, editing, tabulation and validation of data.
- Tools of analysis – data processing.
- Interpretation of results – Preparing research report / thesis
- Universal procedures for preparation of bibliography
- Writing of research articles.

Course outcomes:

C.O.1 To understand the different types of research

C.O.2 Gets an idea on different types data collection methods

C.O.3 Equip students with knowledge on the basic statistical calculations

C.O.4 Enable the students to prepare a good research report

References:

- Research Methodology: Methods and Techniques, C R Kothari, New Age International (p)Ltd, Delhi, 2011
- Introduction to Research in Education, Donald Ary, LucyJacobs, Asghar Razavieh, Christine Sorensen, Cengage Learning,2009
- An Introduction to Statistical Methods, S P Gupta, Vikas publishing House, Delhi, 2009
- Kumar, Ranjit, “Research Methodology: A step by step guide for beginners”, London, Sage publications, 2nd Edition, 2005.
- Michael P. Marder, “Research Methods for Science”, Cambridge University Press, 2011.
- Velds, Mandy van der. “Guide to management research method” Oxford, Blackwell, 2004.

ASSAM WOMEN'S UNIVERSITY
SEMESTER II

Paper Title	Inspirational Fashion	L	T	P	CH	CR
Paper Code	MFTE2401	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

Course Objectives:

- To develop creative skills in illustrating styles and format and to produce a portfolio of design techniques.

Course Outline –

Module I: Meaning of Theme

(No. of classes required- 14)

Theory:

- Definition, meaning and sources of Theme.
- Different themes- Cultures, Environment, Monuments & Different seasons.
- Innovative themes - Creativity/ Imagination and Innovative idea
- Creativity- based on Nature/Architecture/Religion
- Importance of collection/illustration and application of creativity

Practical exercise

- Designing on themes like culture, environment, monuments, seasons etc.
- Illustrating dresses made on innovative themes.

Module II: Fashion Designer

(No. of classes required- 15)

Practical exercise

- Select and 3 National & 3 International designer's collection showcase during latest fashion show (collect pictures or videos)
- Explain the themes, stories and write overall review.
- Collection and illustration of the work inspired by above mentioned designers.

Module III: Presentation Techniques

(No. of classes required- 16)

Theory:

- Styling and designing according to personality
- Client board and its effective use in designing dresses for a particular client.
- Different Presentation Techniques- its forms and purpose

Practical exercise

- Designing Cloth line for Kids wear, Women wear using different themes, fabrics, and surface ornamentations.
- Collage work- collage on the dress, collage in the background, its effective use.
- Swatch board- and the use of swatches on the surface texture of the dresses illustrated

- Front and back illustration- the use and different illusion effect.
- Stylization of fashion figures, stylization of dresses.

Module IV: Textural Effects

(No. of classes required- 07)

Theory

- Texture and different effects of texture
- Survey board, Mood board, Color Board and Theme board. - Cost Sheet, Design Specification Sheet etc.

Practical exercise

- Rendering different textural effects- effect of silk, velvet, net, chiffon, satin, brocade, etc.

Assignment for students-

Documentation of all processes in one project report to be submitted the course instructor.

Course outcomes:

- C.O.1** To improve the knowledge of the upcoming designers/budding fashion designers for creating different collections based on theme and skills.
- C.O.2** Students can develop creativity and able to illustrate different types of figures and dresses.
- C.O.3** Application of colours on garment design.
- C.O.4** Analyze and apply different fabrics and accessories.
- C.O.5** Developing fashion garments for various personalities.

References:

- Illustrating Fashion by Kathryn Mckelvey Blackwell Series. -Fashion Design, drawing by Elisabetta Drudi Bats
- Pooja Khurana & Monika Sethi, Introduction to Fashion Technology, Firewall Media Pvt. Ltd., New Delhi 2007.
- Fashion Kaleidoscope by Meher Castelino Rupa and company -Indian Fashion by Hindol Sengupta Pearson Education
- Ireland Patrick John, Fashion Design Drawing &Presentation, Children, Men
- Julian Seaman, Foundation in fashion design and illustration
- Encyclopedia of fashion details
- Drake and Ireland, Patrick John, "Fashion Design Drawing and Presentation ", B. T, Batsford, London, 1996
- Bose, N.K., Culture and Society in India, Bombay, Asia Publishing House,1967

ASSAM WOMEN'S UNIVERSITY
SEMESTER- II

Paper Title	Non-woven Textiles	L	T	P	CH	CR
Paper Code	MFTE2402	2	1	1	5	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

Course objectives:

- To develop the knowledge about fundamental techniques of nonwoven.
- To acquire knowledge on evaluation of nonwoven fabrics.
- To acquire the capacity to differentiate non-woven structures

Course Outline –

MODULE I: Introduction to Non-woven Fabric (No. of classes required- 07)

Theory

- Introduction, history, terms and definitions of nonwoven fabrics,
- Characteristics and properties of Nonwoven fabrics, polymers, fibres and binders.
- Terminology of non-woven fabrics

MODULE II: Types of Non-woven Fabric (No. of classes required- 16)

Theory

- Types of web formation, bonding and finishing processes, felt fabrics, needle punched fabrics, spun laced fabrics, dry & wet laid non-woven fabrics; spun bonded and stitch bonded nonwoven fabrics
- Web preparation-introduction, fibre consideration, carding systems, aerodynamic web formation, web uniformity,
- Needle punching: introduction , fibres, machinery and techniques, advanced techniques, needles design and action; range of application,
- Adhesive bonded fabrics: Introduction, fabrics from dry laid webs- fibres and processes, binders, solvent bonding; Fabrics from wet laid webs- fibres, machinery and methods, binders and bonding,
- Spun laid fabrics: introduction, processes and products, civil engineering applications, melt blown webs,
- Thermo bonded fabrics: Introduction, techniques used, binder fibres and powders, calendar bonding.

MODULE III: Finishing Process (No. of classes required- 16)

Theory

- Trends in non-woven technology
- Scope of non-woven textiles
- Identification of nonwoven fabrics.
- Finishing of nonwoven fabrics.
- Modified webs and discontinuous bonding- introduction, concept of apertured, spunlaced and print bonded fabrics

- Fabrics for special purposes- concept of medical and other technical fabrics.

MODULE IV:

(No. of classes required- 13)

Theory

- Finishing Methods, Laminates, Bonding and Flocking.
- Testing and evaluating of nonwoven laminated fabrics.
- Visit to non-woven manufacturing Modules.

COURSE OUTCOMES:

C.O.1 Classify the types of nonwovens.

C.O.2 Outline the manufacturing process of nonwovens.

C.O.3 Compare and contrast the features of different bonding methods.

C.O.4 Analyze different nonwoven structures based on their types.

C.O.5 Assess the quality of nonwovens on different parameters.

References:

- Gohi EG•&Vilensky. 1993. Textile Science. CBS.
- Hall AJ. 1995. Students Hand Book of Textile Science. Newness Butterworths.
- Lewin M•& Pearce EM. (Eds.). 1998. Handbook of Fibre Chemistry.
- Marcel Dekker., Vidyasagar PV. 1998. A Handbook of Textiles. Mittal Publ.

**ASSAM WOMEN'S UNIVERSITY
SEMESTER II**

Paper Title	Fashion Forecasting	L	T	P	CH	CR
Paper Code	MFTE2403	2	1	1	5	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

Course objectives:

- Identify the who, what, where, why & when of Forecasting
- Define key terms and processes
- Explain the effects of changing fashion
- Identify key ideas and designers of each era
- Understand direction & speed of change in fashion movement
- Learn to create & present the forecast.

Course Outline:

Module I: Introduction to Fashion Forecasting (No. of classes required- 3)

- Terminologies, who forecasts fashion?, why forecast & How is it done?

Module 2: Zeitgeist & Different eras in fashion (No. of classes required- 10)

- Victorian & Charles Worth
- Edwardian & World War 1
- Roaring Twenties & Flapper
- Great Depression & World War 2
- New Look & Fashion Conformity
- Mod & the Youth Revolution
- Street Fashion & the 'Me' Generation
- Post-Modernism & Time of excess
- Global Fashion & Internet Explosion
- New Millennium & Social Networking

Module 3: Fashion Movement (No. of classes required- 10)

- Fashion Cycles – introduction, rise, culmination, decline & obsolescence.
- Theories of Fashion Adoption
- Pendulum Swings
- Speed of Fashion Change & Forecasting the Movement of Fashion
- Long Term & Short Term Forecasting
- Target Segmentation

Module 4: Social & Cultural Influences Social & Cultural Influences

(No. of classes required- 10)

- Sociological & Physiological Influences on Fashion and how it shapes trends in Fashion.
- Collecting & Editing Information about various influences.
- Interpreting & Analyzing Information about Long Term Forecast.

Module 5: Market Research

(No. of classes required- 05)

- Market Research & Identifying Theme, Colour, Textiles, Trims, Findings & Materials & Look for Forecast

Module 6: Presentation

(No. of classes required- 14)

- Creating & Presenting a Forecast.

COURSE OUTCOMES:

- Students will be efficient in identifying a major and a minor trend.
- Will be able to predict a Fashion Forecast successfully
- Work for Forecasting agencies with the requisite knowledge.

References:

- Fashion Forward -by Chelsea Rousso, Bloomsbury -2015
- Fashion Trend Forecasting, by Gwyneth Holland, 2017.
- Fashion Forecasting: Research Analysis & Presentation by Evelyn Brannon, 2004.

ASSAM WOMEN'S UNIVERSITY

SEMESTER-II

Paper Title	Consumer behaviour - textiles and apparel	L	T	P	CH	CR
Paper Code	MFTE2404	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes: 52

Course objectives:

- To provide the in-depth knowledge of consumer behavior, consumer protections measures.
- To give them knowledge about retailing in fashion industry.

Course Outline –

MODULE I : Introduction to Consumer Behaviour (No. of classes required- 10)

Theory

- Introduction & Overview of consumer behaviour;
- The Consumer perspective and viewpoints;
- Understanding the consumer;
- Environmental Influence towards consumer behaviour ;
- Individual Differences of consumer behaviour.

MODULE II: Consumer Types (No. of classes required-08)

Theory

- Consumer Resources
- Classification of consumer types
- Involvement and Motivation Knowledge of consumers,
- Attitudes: Individual difference in behaviour;

MODULE III: Marketing Strategy (No. of classes required- 12)

Theory

- Consumer Decision Processes and Behaviour;
- Consumer Analysis & Marketing Strategy;
- Retailing;
- Consumer Trends;
- Market Segmentation;
- Diffusion of innovation.

MODULE IV: Global Market (No. of classes required- 04)

Theory

- Counterfeit textiles and consumer protection measures;
- Global Consumer Markets.

Practical: (No. of classes required- 18)

- Conducting survey to study the consumer behaviour & preferences of fabric, colour, texture, style of garments etc. from various sectors;
- Analysis of market;
- Identification of areas of consumer education in the field of apparel & textiles;
- Development of educational material;
- Educating selected consumer groups in the identified areas.

COURSE OUTCOMES:

C.O.1: After going through this paper, the student will be able to analyse their constructed products according to the market value, consumer behaviour, consumer protections measures and retailing in fashion industry.

Suggested Readings:

- Cranz RLM. 1972. Clothing Concepts. Collier Mcmillan.
- Flugel JC. 1950. The Psychology of Clothes. Prentice International.
- Fringes GS. Fashion from Concept to Consumer. Prentice International.
- Mary Kafgen & Phyllis 1971. Individuality in Clothing Selection & Personal Appearance. The Macmillian Co.
- Ryan.M.S. 1966. Clothing - A Study in Human Behaviour. Winston.

**ASSAM WOMEN'S UNIVERSITY
SEMESTER II**

Paper Title	CAD Pattern Making, Grading & Construction Studies	L	T	P	CH	CR
Paper Code	MFTAE2201	0	1	1	3	2

Minimum number of classes per week: 2

Minimum number of classes in a semester: 26

Course objectives:

- To develop confidence for industrial line work
- To develop basic knowledge about technological aspects of computerized pattern making.

Course Outline –

Module I: Basic Pattern Set Preparation

(No. of classes required- 13)

Practical exercise

Introduction to computerized pattern making and grading

- How to make computerized patterns
- What is pattern grading
- Types of pattern grading methods (cut and spread, pattern shifting, computer grading)

The Basic Pattern Set Preparation –

- Basic Front Bodice
- Basic Back Bodice
- Basic Sleeve
- Basic Front Skirt
- Basic Back Skirt

Module II: Pattern Variations

(No. of classes required- 13)

Practical exercise

Marker Making & plotting of various patterns and printing of the same

- Pattern Grading
- Basic Front Bodice
- Basic Back Bodice
- Basic Sleeve
- Basic Front Skirt
- Basic Back Skirt

Assignment for students-

- Students will develop a practical note book under supervision of course instructor following all Modules.
- A collection of children's wear will be developed under supervision of course instructor.

- Assignment on creating Standard measurement charts for different age groups.

COURSE OUTCOMES:

C.O.1: This paper will help the students to create their own ideas about technological designing of garments.

C.O.2: They will be able to learn time management and mass production methods.

C.O.3: Design patterns for children's wear, women's wear and men's wear for basic and complex styles.

C.O.4: Plan different layouts for market efficiency to minimize fabric wastage.

References:

- Computer-aided Pattern Design and Product Development, Alison Beazley and Terry Bond, Blackwell publishing Ltd. www.blackwellpublishing.com
- The comparison of the Manuel and CAD systems for pattern making grading and marker making processes, Ziyet Ondogan, Celin Erdogan, 35100 Bomova-Iznar, Turkey.
- GOYMAR/Computer aided pattern Making- Gerber Technology.
- Telestia Creator Pattern Grading CAD software.
- Assyst-Bullmers software for patten making, grading and marker maker.
- Fashion CAD-Accurate pattern making software for perfect fitting garments.
- TUKCAD, pattern making software for Fashion design
- Reach CAD software

**ASSAM WOMEN'S UNIVERSITY
SEMESTER II**

Paper Title	Fabric Surface Techniques	L	T	P	CH	CR
Paper Code	MFTSE2201	0	1	1	3	2

Minimum number of classes per week: 2

Minimum number of classes in a semester: 26

Course objectives:

- To develop an understanding of surfaces used for apparel, focusing towards various ornamentation techniques.
- To encourage students to explore fabrics and other materials to create interesting swatches for a niche market.

Course Outline –

Practical:

1. Market survey to appreciate and understand current trends in the market (both at a domestic and international level) and a study of the forecast.
2. Familiarization with various surface ornamentation techniques (by visiting Modules) at a technical level as well as for contemporary usage.
3. Identification of a category of garments for e.g. Women's wear, Menswear or Kids wear and further in each category : Casual wear or eveningwear etc.
4. Preparation of mood board which must include strong forms, color story and textures.
5. Survey the market or source suitable fabric and raw materials for explorations.
6. Exploration and development of forms , textures and motifs suitable for a particular technique. (for e.g. textures possible with tie/dye, motifs suitable for emb./printing *etc*) The explorations to be done on proper in color.
7. Hand Crafted Skills: Selection of Techniques from the following :-

Module I:

- Hand embroidery
- Machine embroidery

(No. of classes required-06)

MODULE II:

- Batik

(No. of classes required-06)

- Tie & Dye

- Printing

MODULE III:

(No. of classes required-08)

- Self Exploration

(Note: Students will select 3 techniques from the above self-exploration which is compulsory)

Explorations include :

A- Machinery embroidery

B- Hand embroidery with a contemporary feel and knowledge of international nomenclature.

1- Self explorations which include quilting, basic hand-embroideries, patchwork/appliqué thermosetting, faggoting , layering, fraying, tearing pulling of yarns, burning out etc.

2- Batik, enzyme, acid, stone, sand wash, explorations.

3- Tie & Dye, Shibori explorations.

MODULE IV:

(No. of classes required-06)

a) Print design – in house explorations of block, stencil and screen printing.

Development of fabric swatches for each of the selected technique (size 10” x10”) Explorations must relate to the international trends/forecast for a particular season.

Note: There will be a submission of each exploration at the end of the 3 weeks.

Final submission:

a) Mood board

b) Design development file

c) Paper explorations

d) 5 samples each of the 3 selected techniques + 5 samples of self-explorations (total 20 samples)

e) Art work of the designed collection

Evaluation Criteria:

1) Relations of the exploration and final samples to the mood board

2) Design development process

a) Exploration of possibilities within the technique

b) Final samples and overall presentation of the collection. Quizzes

c) Market research/survey

d) Projects

e) Swatch analysis and fabric exploration

f) Costing

COURSE OUTCOMES:

C.O.1: Acquire relevant skills in developing different types of traditional Indian embroideries and textiles.

C.O.2: Developing skills in various types of stitches, traditional embroidery, dyeing processes and traditional printing methods.

C.O.3: Market research

C.O.4: Idea generation for product development

C.O.5: Analyze cost of the product

Reference:

- Corel Draw By Ramesh Bangia
 - CAD/CAM Computer Aided Design & Manufacturing by Mikell P Groover&Mory Zimmers. Jr, Pearson Education Pub.2000
 - Fashion Design on Computers by M. Kathleen Colursy, Prentice hall.2004
 - CAD for fashion design by Renee Weiss Chase, Prentice hall Pub
 - CAD/CAM/CIM by R.Radhakrishnan, S.Subramanyan, V.Raju, New Age International Pub.
 - Dr. G. S. Suresh, Computer Aided Design Laboratory
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ASSAM WOMEN'S UNIVERSITY
SEMESTER III

Paper Title	Advance Draping Techniques	L	T	P	CH	CR
Paper Code	MFTC3401	0	2	2	6	4

Minimum number of classes per week: 4

Minimum number of classes: 52

Course Objective:

- To enable students to make pattern by using dress form.
- To obtain perfect fit and harmony between the fabric and design of the garment.

Module 1: Preparation of basic Patterns (No. of classes required- 10)

- Introduction: Preparation of fabric, Equipment needed, about dress form/dummies, Seam allowances/ease
- Preparation of basic Patterns by draping: Basic bodice – front and back, Basic skirt – front and back
- Dart manipulation/Variations in darts

Module 2: Name and preparing samples (No. of classes required- 15)

- Bodice variation – princess line, yokes with gathers/pleats, Bustier
- Neckline Variations- v neck, u neck, square, inset, envelope, pot or glass,boat,decollete,scalloped,sweetheart,halter,cowl,asymmetrical, modern variations
- Circular skirt, Pleated skirt, Gathered skirt, Pegged skirt, Yoke skirt, Panel skirt
- Draping of collars, on a body form using muslin cloth.
- Variations of skirts: A-line skirt, Circular skirt, Pleated skirt, Gathered skirt, Pegged skirt, Yoke skirt, Panel skirt

Module 3: (No. of classes required- 10+17)

- Dresses: Bias cut dress, Sculptured Dress, Bustier Design, etc
- Construction of any eight innovative garments using different themes, occasions, seasons (Fall Winter, Fall Spring, and Fall Autumn).
- Quality control check, finishing and packaging of the garment.

COURSE OUTCOMES:

C.O.1: The student will be skill enough to start their own unit.

References:

- Advanced drafting and draping by Manmeet Sodhia Kalyani Publishers
- The art of fashion draping by Connie Amaden Crawford Fairchild
- Dress Fitting by Natalie Bray Blackwell Science

ASSAM WOMEN'S UNIVERSITY

SEMESTER III

Paper Title	Computer Aided Designing- II	L	T	P	CH	CR
Paper Code	MFTC3402	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

OBJECTIVES:

- To expose the students to different software.

Course Outline –

Module 1:

(No. of classes required- 16)

Theory

- Fashion Details/ Silhouette:

Practical exercise

- Garments details-
- Creating effects: created by fashion details, elements of design.
- Drawing the details of the following in Corel Draw.
- Collar: Mandarin, High Bias, Tuxedo, Cape, Flat Tennis, Sailors, Chelsea, cowl, bishop.
- Sleeves: Raglan, Hanky, Tulip, Ruffle, Dolman, virago, flare, lantern, Dalmatian, pagoda.
- Pockets: Flap, Pouch, Patch, Cross, Slit, Kurta
- Skirts: Novelty Gathered, Hip rider, Trumpet, Pegged, Circular, Pleated, Straight, A-Line, straight fitted, fishtail, petal, peplum, puff ball.
- Trousers: Jeans, Straight Pants, Baggy Pants, Jump Suit, jogging pants, trouser skirt, Capri, hipsters, baggy jeans, bell bottoms, northern soul, riding habits.
- Illustrate above mention points.

Module 2:

(No. of classes required- 13)

Practical exercise

- Silhouette: A-Line shape, funnel shape, circular shape, straight shape, rectangular shape.
- Draping the above created details on fashion figures Importing, Saving and exporting images for the web.
- Design an executive wear along with accessories.

Module 3:

(No. of classes required- 13)

Practical exercise

- Creation of different Accessories: Bags, Belts, Shoes, Hats, Bows, Jewellery-specify each of items.
- Illustrating of different hairstyles.

- Logo and Labels designing

Module 4:

(No. of classes required- 10)

Theory

- Introduction to different design software's for apparel designing.

Practical exercise

-Illustration of different dress design and development of their pattern

-Illustration of Apparel Library.

COURSE OUTCOMES:

C.O.1 The students will be able to establish a design studio.

References:

-Adobe Photoshop, 12.0

-Gruman,Galen,Adobe in Design Cs2 Bible

-Adobe Illustrator, 12.0

-Lazer, Susan.H.,Adobe Illustrator for Fashion Design

-Golding,Mordy,Adobe Creative Suite 2

ASSAM WOMEN'S UNIVERSITY
SEMESTER III

Paper Title	Pattern making and garment construction-II	L	T	P	CH	CR
Paper Code	MFTC3403	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes: 52

Objectives:

- To understand and co-relate design, pattern and manufacturing processes involved in garment industry.

Course Outline –

Module 1: (No. of classes required- 10)

Theory

- Developing drafting of Adult basic pattern Front Basic Bodice block, Back basic bodice block, basic skirt front and back , Basic Sleeve.
- Adaptation of basic sleeve: - Puff sleeve, flared sleeve, Bell sleeve, Cap sleeve, Kimono sleeve, Raglan sleeve, Petal sleeve, Leg-o-mutton sleeve.

Practical exercise

- Developing of Adult basic pattern Front Basic Bodice block, Back basic bodice block, basic skirt front and back , Basic Sleeve
- Development of various types of sleeves - Puff sleeve, Flared sleeve, Bell sleeve, Cap sleeve, Kimono sleeve, Raglan sleeve, Petal sleeve, Leg-o-mutton sleeve.

Module 2: (No. of classes required- 08)

- Instruction, Drafting and construction Trouser and Shirt, designer blouse, Salwar kameez, Churidaar pajama, Pajama/ male pant, Designer evening gown, Designer party wear/short dress

Module 3: (No. of classes required- 15)

Practical exercise

Module 4: (No. of classes required- 19)

Practical exercise:

Designing, construction of any two-

- Functional

- Blouse
- Ladies top

- iii. Skirts
- iv. Salwar suit
- v. Night suit
- vi. Long gown
- vii. Kurta
- viii. Pyjama
- ix. Trouser

- Drafting and cutting patterns of all the above designs on full scale, with all specifications.
- Assignment / Seminar on recent trends on adult casual and formal wear garments.

COURSE OUTCOME:

C.O.1 The student will be able to design and construct garments appropriately to customer's satisfaction and needs.

References:

- Advanced Drafting & Draping by Manmeet Sodhia, Kalyani Publishers.
- Basic Processes and clothing const. by Sherie Doongaji , RajjPrakashan.
- Text book of clothing and textiles by Sushma Gupta, Kalyani Publishers.
- Pattern cutting made easy by Gillian Holman Batsford.
- Garment const. skills by Prem lata Malik, Kalyani Publishers.

ASSAM WOMEN'S UNIVERSITY
SEMESTER III

Paper Title	APPAREL MANUFACTURING TECHNOLOGY	L	T	P	CH	CR
Paper Code	MFTE3401	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

OBJECTIVES:

- To understand and co-relate design and manufacturing processes in garment industry.
- To create professionals with technical skill and knowledge to work in garment industry as Production Executives, Quality Controllers, Coordinators or Assistant Merchandisers

Module 1:

(No. of classes required- 10)

Theory

- Knowledge about spreading and material handling
- Production systems and planning in the sewing room
- Understanding of work study and production aspects of sewing
- Seam and stitches-Induction to industrial sewing machines
- Importance of work aids and machine attachments

Practical:

- Practice discipline, hygiene, safety and effective communication
- Visit to a garment manufacturing unit
- Detailed garment analysis
- Familiarization with day to day production activities
- Mock production by assembly line system

Module 2:

(No. of classes required- 16)

- Textile manufacturing process, fabric appreciation and sourcing
- Importance of quality and quality control
- Measurement and quality principles
- Fabric quality requirement and inspection
- Concept of AQL and other garment inspection systems
- Knowledge about infusing quality at all levels

Practical:

- Line balancing activities and measure of productivity
- Developing standard operating procedures
- Calculation of standard allowed minutes
- Practice of seams, samples and garment components
- Practice of various exercises on Industrial sewing machine using different work aids and machine attachments

Module 3:

(No. of classes required- 26)

- Introduction to pattern making tools and equipment- Knowledge of drafting of Basic bodice block, sleeve, shirt, pockets etc.
- Understanding the concepts of merchandising
- Role and responsibilities of merchandiser
- Introduction to garment costing
- Export documentation-Inco and payment terms

Practical:

- Construction of complete garment
- men's shirt, dress, trouser and T-shirt - Handling different types of fabrics
- Identification of common fabrics and flagging
- Sample preparation of dyeing and printing methods
- Visit to textile/fabric sourcing hub
- Identification of defects in fabrics & accessories
- Identification of sewing and pattern defects, finishing and packing defects .
- Measurement checking as per spec sheets
- Mock garment sampling, production and inspection
- Familiarization with various quality documents and reports
- Testing of fabric for colour fastness, light fastness, dimensional changes etc

- Pattern and drafting of basic blocks and development of different styles of sleeves, cuffs, shirts etc.
- Development of commercial patterns from spec sheets/ tech packs
- Preparation of time and action plan
- Merchandising calendar
- Preparation of cost sheet

COURSE OUTCOMES:

C.O.1 Students will be familiarize with special technology of apparel manufacturing.

C.O.2 Develop skill in them for the development of garment manufacturing technology.

References:

- Anderson B. and Anderson “costume design”, Harcourt Brace 2nd Ed.,1999
- Laver J., costume and Fashion” Thames & Hudson 1995
- Encyclopedia of Fashion accessories by Phyllis Tortora Fairchild
- Fashion design process-innovation by Kathryn Mckelvey Blackwell & practice.
- Ireland, Patrick John, “Fashion Design Drawing and Presentation”, B.T. Batsford, London, 1996.
- Allen and Seaman, “Fashion Drawing – The Basic Principles”, B.T. Batsford, London.
- Managing quality in the apparel industry,Pradip Mahta, Satish K. Bharadwaj
- Quality Assurance for textiles and apparel .Sara J. kadolph.

**ASSAM WOMEN’S UNIVERSITY
SEMESTER III**

Paper Title	Computer Aided Printed Textile Designing	L	T	P	CH	CR
Paper Code	MFTE3402	0	2	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

OBJECTIVES

- To introduce the students about the various concepts of textile designing through CAD.

Module 1:

(No. of classes required- 10)

Theory

- Introduction to Computer Aided Software
(Corel draw, Adobe Photoshop, TUKA Studio)
- Learning about Corel Draw and Photoshop, different softwares.
- Uses of commands of different softwares.

Module 2:

(No. of classes required- 16)

Practical exercise

- Practicing the use of create a drawing with TUKA studio software commands.
- Preparation of samples with different colors, patterns, texture;
- Drawing basic motifs- Natural/floral, stylized, abstract and geometric;

Module 3:

(No. of classes required- 16)

Practical exercise

- Creating a designer logo,
- Developing designs for border patterns,
- Developing lattice for all over pattern- brick, diamond,
- Creation of pattern for apparel products.
- Creation of suitable background for border and all over patterns.

Module 4:

(No. of classes required- 10)

Practical exercise

- Assignment on different CAD textile designing aided software and their uses.
- A power point presentation and printed textile designing using CAD.

COURSE OUTCOMES

C.O.1 The student will be skilled in design development using CAD software.

References:

- Computer technology for textiles and apparel, edited by Jillian Hu
- Soft computing in textile engineering, edited by a. Mojumdar
- Davis L Msrisn. 1980. Visual Design in Dress. Prentice Hall.
- Prakash K. 1994. Impression – A Classic Collection of Textile Designs. Design Points.
- Prakash K. 1995. Traditional Indian Motifs for Weaving & Textile Printing. Design Points.
- Rene Weiss Chase 1997. CAD for Fashion Design. Prentice Hall.
- Winfred Aldrich 1992. CAD in Clothing & Textiles. BSP Professional Books.
- Yates MP. 1996. Textiles – A Handbook for Designers. W.W. Norton.

ASSAM WOMEN'S UNIVERSITY

SEMESTER-III

Paper Title	Advanced pattern making	L	T	P	CH	CR
Paper Code	MFTE3403	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

OBJECTIVE-

- To impart in-depth knowledge of style reading pattern making and garment construction techniques
- Enable students to make advance pattern and obtain perfect fit and harmony between the knitted fabric and design of the garment.

Module 1:

(No. Of classes required- 5)

Theory

Introduction-

-Advanced techniques of pattern making incorporating style lines & fullness.

Module 2:

(No. Of classes required- 10)

-Principles of contouring, surplice/off shoulder and halter designs; built-in necklines, cowls and collars.

Module 3:

(No. Of classes required- 15)

-Skirts, advanced sleeve variations, exaggerated armholes, pockets, bias cut dresses.

Module 4:

(No. Of classes required- 22)

-Jackets, types of pants; pattern adoption to knits. Practical Procedures used in the development of slopes and patterns ;Developing dart less slopes; Princess line variations ; Blouses; Halters and surplice; Vests and their types; Collars; Sleeves- kimono and raglan variations; Skirts; Pants- pant length variations, bell bottom pants, body fitting pants, and other types; application of pattern making techniques

Practical:

Advanced techniques of pattern making - incorporating style lines & fullness

Principles of contouring, surplice/off shoulder and halter designs; built-in necklines, cowls and collars

Skirts, advanced sleeve variations, exaggerated armholes, pockets, bias cut dresses.

Jackets, types of pants; pattern adoption to knits. Practical Procedures used in the development of slopes and patterns ;Developing dart less slopes; Princess line variations ; Blouses; Halters and surplice; Vests and their types; Collars; Sleeves- kimono and raglan variations; Skirts; Pants- pant length variations, bell bottom pants, body fitting pants, and other types, application of pattern making techniques

- ❖ Visits to industry, Visit to boutiques/garment construction unit.

COURSE OUTCOME:

- C.O.1 To understand the method of pattern development for different genders in various sizes.
- C.O.2 To impart knowledge about the technique of sewing and their importance.

Suggested Readings-

- Bane A .1996.Creative Clothing Construction. MC Graw-Hill
- Connie Amaden-Crawford 1989. The Art of Fashion Draping.Fair Child Publ.
- Janine Mee•& Michal Purdy 1987.Modelling on the Dress Stand.BSP Professional Books.
- Natalie Bray 1994. Dress Fitting. Blackwell.

ASSAM WOMEN'S UNIVERSITY
SEMESTER III

Paper Title	Garment Production Management	L	T	P	CH	CR
Paper Code	MFTE3404	3	1	0	4	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

Objectives:

- To enable students understand management in garment industry.
- To explain the students about the textile industry, its production system and its problems and prospects.
- To understand the importance of quality management and understand the role of a merchandiser in the Textile industry.

Module 1:

(No. Of classes required- 13)

Introduction-

- Meaning of Management, Characteristics, Concept of management
- Definition of MBO. Steps in MBO, Benefits of MBO
- Principles of Management
- Planning Types and Strategies
- Functions of management

Module 2:

(No. Of classes required- 13)

Production Management System-

- Production Section
- Production System and Production Planning, Plant Layout.
- Different types of Industrial sewing machine and modern accessories in sewing machines.
- Finishing, Pressing, Trimming and Packing.

Module 3:

(No. Of classes required- 13)

Garment Production system-

- Industrial Engineering concepts in improving apparel productivity in brief.
- Work study and standard time control.
- Balancing.

Module 3:

(No. Of classes required- 13)

Quality Control and Implementation-

- Introduction to quality control-Definition of quality
- Quality Control in Production – Importance, tools for quality assurance.
- Quality control from designing to end product.

- Key problems in textile industry.
- Industrial visit

COURSE OUTCOMES:

C.O.1 This course will make the students learn about various trends in management of garment industry and understand various export and import policies.

C.O.2 It will also improve knowledge about various product standards and product specifications and the process of product development towards market need.

References:

- Introduction to clothing prod. Mgmt. by A J Chuter Blackwell series.
- Garment technology for Fashion designers by Gerry Cooklin Blackwell.
- Fashion from concept to consumer- G.S.Frings.
- Quality Control in apparel Industry- P.V.Mehta

ASSAM WOMEN'S UNIVERSITY
SEMESTER-III

Paper Title	Principles of Fashion Design	L	T	P	CH	CR
Paper Code	MFTGE3401	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

OBJECTIVES:

- To understand the concept of fashion and principle of Fashion Design.

Module 1:

(No. Of classes required- 18)

Introduction-

- Definition of Fashion and Apparel design
- Fashion Terminologies
- Elements of Design
- Principles of Design
- Effect of lines.

Module 2:

(No. Of classes required- 18)

Colour Theory-

- Colour Psychology: Meaning of different colours and their effect on the wearer
- Colour wheel, Primary, Secondary, Tertiary colours
- Colour Schemes: Monochromatic, Complementary, Achromatic colour schemes, Analogous colours, Warm colours and cool colours, Concept of Tint, Tone and Shade.

Module 3:

(No. Of classes required- 16)

Design Development-

- Design development: Polka dots, floral prints, other motifs, Nursery prints, Pop prints their development.
- Motifs- Check pattern, Diagonal, Geometric design- Triangle, Rectangle, Squares, Traditional/Ethnic motif, Abstract designs.
- Different types of Necklines, sleeves, collars, skirt.

COURSE OUTCOMES:

C.O.1 Students are accredited with skills of drawing and usage of various art mediums and colour schemes.

C.O.2. Competent to develop a good design through application of elements of design and principles of design.

References:

- Elements of Fashion and Apparel Design- Sumanthi, G.J. New Age International Publishers
- Fashion Technology Handbook- Asia Pacific Business Press. Inc.
- Design Studies by ManmeetSodhia, Kalyani Publishers
- Bride M Whelan, "Colour Harmony", Rockfort Publishers, 1992
- Gold Stein, "Art in everyday life", IBH Publishing Co, Calcutta, 1992
- Ireland, Patric John, "Fashion Drawing and Presentation", B.T. Batsford, London,1996.

ASSAM WOMEN'S UNIVERSITY

SEMESTER-III

Paper Title	Fundamentals of Apparel Design	L	T	P	CH	CR
Paper Code	MFTGE3402	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

OBJECTIVES:

- The knowledge and skill related to basic design is essential for the students in order to develop the understanding regarding how to make a design using lines, dot, shapes and color combination.

Course Outline –

Module 1:

(No. Of classes required- 18)

Introduction-

- Definition of Fashion and Apparel design
- Fashion Terminologies
- Elements of Design
- Principles of Design
- Effect of wearing different lines on the wearer

Module 2:

(No. Of classes required- 18)

Colour Theory-

- Colour Psychology: Meaning of different colours and their effect on the wearer
- Colour wheel, Primary, Secondary, Tertiary colours
- Colour Schemes: Monochromatic, Complementary, Achromatic colour schemes, Analogous colours, Warm colours and cool colours, Concept of Tint, Tone and Shade.

Module 3:

(No. Of classes required- 16)

Design Development-

- Design development: Polka dots, floral prints, other motifs, Nursery prints, Pop prints their development.
- Motifs and Pattern: Check pattern, Diagonal, Geometric design- Triangle, Rectangle, Squares, Traditional/Ethnic motif, Abstract designs.
- Different types of Necklines, sleeves, collars, skirt.

COURSE OUTCOMES:

C.O.1.Students will be able to use industrial terminologies and equipment in appropriate ways.

C.O.2 Students will able to analyze and use colour units effectively in their design process.

References:

- Elements of Fashion and Apparel Design- Sumanthi, G.J. New Age International Publishers
- Fashion Technology Handbook- Asia Pacific Business Press. Inc.
- Design Studies by ManmeetSodhia, Kalyani Publishers
- Bride M Whelan, "Colour Harmony", Rockfort Publishers, 1992
- Gold Stein, "Art in every day life", IBH Publishing Co, Calcutta, 1992
- Ireland, Patric John, "Fashion Drawing and Presentation", B.T. Batsford, London,1996.

ASSAM WOMEN'S UNIVERSITY
SEMESTER -IV

Paper Title	Design Collection & Fashion Show/Exhibition/Display	L	T	P	CH	CR
Paper Code	MFDC4401	0	2	3	8	5

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVES-

- Aim to develop creative skills in illustrating styles of Portfolio of innovative garment designs.
- To make students confident enough for organizing fashion show/exhibition/display.

Module 1: Introduction to Portfolio

(No. of classes required- 07)

Practical exercise

- Definition and types of portfolio,
- Contents of fashion design portfolio- Theme/Inspiration /Mood board
- Process of developing garment on different themes from various sources (magazines, books, films, nature, surroundings, handicrafts, paintings, etc.)

Module 2: Preparation of a Portfolio

(No. of classes required- 14)

Practical exercise

- Cover page, Introduction, Contents page
- Title page- for primary work like illustration, embroidery and designs etc.
- Title page-Men's, Women's and Kid's Collection & Brief Summary-
- Mood board (To include inspiration, look direction and color palette)
- Ideation
- Illustrations
- Final Products

Module 3: Design Collection

(No. of classes required- 07)

Practical exercise

- Project proposal- Submit 10 ideas based on the concept.
- To justify the theme of the dress, in respect of color, silhouette, surface texture, surface ornamentation, accessories accompanying the dress.

Module 4: Design Development

(No. of classes required- 12)

Practical exercise

- Survey
- Finalization of theme
- Sourcing
- Finalization of designs
- Measurements and specification sheets
- Pattern Development:
- Development of basic block
- Pattern making and layout
- Product Development:

Module 5: presentation of the collection

(No. of classes required-

12)

Practical exercise

- Completion / Execution of Entire Product Range
- Photo Shoot of the developed collection

Note: At the end of the semester the students should display their developed garment collection by organizing a Fashion Show / Exhibition /Display.

Assignment: Documentation of designer portfolio to be submitted the course instructor.

COURSE OUTCOMES -

C.O.1 Students will self reliant in different presentation skills.

C.O.2 To enhance the experience as a designer to participation in a fashion show as a designer this will help improving their portfolio.

References:

- Fashion from concept to consumer by Dickerson Pearson, 27 September 2007.
- Design your portfolio by Steven Faerm, Bloomsburry Publications, 2014
- Portfolio presentation for Fashion Designers by Linda Tain, Fairchild Publications, 2018.
- Fashion Kaleidoscope by Meher Castelino Rupa and company
- Indian Fashion by Hindol Sengupta, 2005.
- Chanel The Complete Collections by Patrick Mauriès, 2020.
- Fashion Design Project Planner, Lance Derric, 2020.

SEMESTER IV

Paper Title	Entrepreneurship	L	T	P	CH	CR
Paper Code	MFTC4402	2	1	1	5	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVES:

- To explore the possibilities of becoming entrepreneurs.
- To enable the students aware about the inside of the garment Industry, its departments and personnel, jobs undertaken, references, Observations, Precautions, etc.

Module 1: Entrepreneurship (No. of classes required-07)

Entrepreneurship

Theory

- Meaning, Importance, Evolution of term Entrepreneurship.
- Types of entrepreneur
- Factors influencing entrepreneurship - Psychological factors, Social factors, Economic factor and environmental factors.
- Characteristics of an entrepreneur.
- Growth of entrepreneurship- role of entrepreneurship in economic development

Assignment for students-

- Case study and report about any local successful entrepreneurs, their entrepreneurial startup and prepare the hurdles faced by them in establishing their business.

Module 2: Institutional Support to Entrepreneurs (No. of classes required-07)

Theory

- Institutional support to entrepreneurs - Need for support - National small Industries Corporations (NSIC), NIESUBD, NEBARD, PMEGP, SIDO, SSIDC, SISI, State

Finance Corporations (SFC), District Industrial Centers (DICs), Small Industries Development Bank of India (SIDO), National Small Industries Corporation(NSIC)

- Financial assistance -state and central government banks-Financial incentives and subsidies.

Module 3: Women Entrepreneurs

(No. of classes required- 10)

Theory

- Concept of Entrepreneur
- Categories of Women Entrepreneurs
- Women in organized and unorganized sector, Women in traditional and modern industries, Women in urban and rural areas - Supportive Measures for Women's Economic Activities and Entrepreneurship
- Technological training and awards, Federations and associations.
- Problems of Women Entrepreneurs in India and Ways to Develop Women Entrepreneurs.
- Measures to Improve Women Entrepreneurship- Trade Related Entrepreneurship Assistance and Development (TREAD) scheme for women, MahilaVikasNidhi, Cooperative schemes, Government Yojanas like Oriental Mahila Vikas Yojana (OMVY), Udyogini Scheme (US), Sukanya Samriddhi Yojana (SSY), Mahila Udyam Nidhi Scheme (MUNS).
- Training programs – Support for training and employment programme of Women (STEP), Women Entrepreneurship Platform (WEP), Training Programme on Skill Development of Women for Employability and Entrepreneurship (SDWEE).

Assignment for students-

- Study about role of government in encouraging women Entrepreneurship in local region.

Industry Internship

Duration: 4 weeks

Knowledge domain:

- To conduct in depth study of a chosen industry.
- To know the basics of visual and written presentation techniques of the documentation.
- To know in details about the selected industries.

Contents:

- Interpretation of industry project brief
- Report writing -The report should have detailed information about the industry, the type of industry(public sector/ private/ partnership), the names of directors, the departments of the industry, its personnel, the jobs being undertaken at the industry, the products being manufactured, the marketing of the products, the raw material being used, the clients, etc.
- The report should also include the work done by the student during his/ her training, specifying what all new was learned during this period.
- The report should be accompanied by the training certificate from the industry.
- It should be duly signed by the student.

COURSE OUTCOMES:-

CO1:- The students will acquire necessary knowledge and skills required for organizing and carrying out entrepreneurial activities,

CO2:- Develop the ability of analyzing and understanding business situations.

References:

- Entrepreneurship by Madhurima Lall, 2008.
- Entrepreneurship development by Vasant Desai, Himalaya Publishing House, 2015.
- Harvard Business Review Entrepreneur's Handbook: Everything you Need to Launch and Grow your New Business by Harvard Business Review, 10 April 2018.
- Hand book of entrepreneurship development, Prepared and Published by: Dhaka Chamber of Commerce and Industry (DCCI) 65-66 Motijheel C/A, Dhaka-1000, Bangladesh, Editor: Md. Sabur Khan, President, DCCI, November 06, 2013.
- Kaulgud: Entrepreneurship Management, Vikas Publishing House.
- Khanaka, S.S., Entrepreneurial Development, S. Chand and Company Ltd., New Delhi,(2006).
- P. Charantimath: Entrepreneurship Development: Small Business Enterprises, By Poornima M. Charantimath, 2006.
- Philip Kotler and Kevin Lane, Marketing Management, Keller, Pearson Education Inc., Delhi, 2006.
- Retail Management by Gibson.GVedamani, 15th September 2003.

- S.S Kanka, Entrepreneurial Development, Revised edition, Sultan Chand Publications, New Delhi, 2012.
- Sanjay Tiwari and Anshuja Tiwari, Entrepreneurship Development in India. Sarup & Sons, New Delhi, 2007.
- The Social Psychology of Entrepreneurial Behavior by Kelly G. Shaver, 1st January 2010.
- The Wiley Handbook of Entrepreneurship by Wiley-Blackwell, September 2017.

ASSAM WOMEN'S UNIVERSITY
SEMESTER IV

Paper Title	Project/ Thesis/ Dissertation	L	T	P	CH	CR
Paper Code	MFTC4403	0	0	5	10	5

Minimum number of classes per week: 5

Minimum number of classes in a semester: 65

COURSE OBJECTIVES

- To blend useful practices with modern research in Fashion
- To Identify Problems related to area of interest
- To gain quality research and presentation skills.
- To carry out research work and enhance problem solving skills and research knowledge

Course Outline –

- A thesis shall form partial requirement for fulfillment of the total requirements of the total credit to become eligible for a Post-Graduate Degree.
- Topic chosen should show originality in conceptualization/selection in the area of Fashion Design and Technology, exhibit systematic habits and regularity of work, thoroughness in methodology and statistical analysis, overall research competence and ability to put research findings in context.
- The research work should contribute to the advancement of knowledge in the field.
- The student must be guided and supervised by a member of the teaching faculty of the department.
- The research culminated must reflect the student's independent work.
- A project work shall have to be undertaken by the students as per the University prescribed guidelines.

COURSE OUTCOMES:-

CO1:- Students will be able to gather knowledge about Identification of research idea, Analyze sources for Research, Application of problem solving skills, Creation of research report and Development of presentation skills.

ASSAM WOMEN'S UNIVERSITY
SEMESTER IV

Paper Title	Fashion Industry, Marketing & Management	L	T	P	CH	CR
Paper Code	MFTE4401	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes: 52

COURSE OBJECTIVES:

- To introduce students to aspects of fashion and textile marketing and merchandising
- To impart knowledge about various product standards and product specifications
- The process of product development towards market needs.

Course Outline –

Module 1: Fashion Industry (No. of classes required- 12)

Theory

- Introduction to Fashion Industry
- Indian and Global Fashion Market levels of fashion industry- couture, ready to wear, mass production.
- Organizational set-up of fashion industry
- The different departments, personnel and their jobs career in fashion industry

Module 2: Marketing (No. of classes required- 16)

Theory

- Introduction to Marketing
- Nature and Scope of Marketing
- The Marketing Concept
- Market Segmentation
- Targeting and Positioning

- Strategic Marketing
- Fashion market and marketing environment
- Fashion marketing planning
- Market research
- User's buying behaviour
- Marketing communication.

Module 3: Management

(No. of classes required-

6)

Theory

- Concepts, Principles & Characteristics.
- Advertising
- Sales promotion techniques

Module 4: Presentation

(No. of classes required-

18)

Practical

- Project.
- Exhibitions & sales, fashion shows (concept and presentation skills, publicity campaigns.)

COURSE OUTCOMES:-

CO1:- The student will be able to analyse the market value, consumer behaviour, consumer protections measures and retailing in fashion industry and create products accordingly.

References:

- Fashion Marketing and Merchandising: Sodhia Manmeet, Chatley, Kalyani Publishers, January 2003.
- Fashion Marketing Communications by Gaynor Lea-Greenwood, January 2014.
- Fashion Marketing by Mike Easey, 10 October 2008
- Fashion Buying by Helen Goworek, 14 May 2007
- Fashion Marketing Management By V. Ramesh Babu and A. Arunraj, 30 Jan 2019.
- Handbook of Research on Global Fashion Management and Merchandising by Alessandra Vecchi (London College of Fashion, U.K.) and Chitra Buckley (London College of Fashion, U.K), May, 2016.

- Visual Merchandising by Tony Morgan 2016.

ASSAM WOMEN'S UNIVERSITY

SEMESTER-IV

Paper Title	Textile Industry / Garment Industry/ and Trade	L	T	P	CH	CR
Paper Code	MFTE4402	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes: 52

COURSE OBJECTIVES –

- To enable the students to recognize the place of textile industry/garment/fashion industry in the Indian economy, industry trends.
- To develop awareness about the standardization of textile goods, consumer agencies and services.

Module 1: Industry

(No. of classes required-

8)

Theory

- Introduction to textile industry /garment industry /Fashion industry
- History and development.
- Status of textile industry/garment industry/Fashion industry in India

Module 2: Yarn

(No. of classes required-

17)

Theory

- Over view of yarn: cotton, wool, silk, rayon, jute, handlooms, and knitting industry;
- Textile industry and their composite units.
- Government Textile & Clothing policies.

Module 3: Associations

(No. of classes required-

8)

Theory

- Textile Research Associations;
- Apparel Export promotion Council and Textile crafts councils, Textile Committee, KVICs, Khadi and Handloom Boards and Co-operative societies.

Module 4: Studies and presentation

(No. of classes required-

19)

Practical

- Study of Apparel parks, GATT, TUF, ISO 9000 & ISO 14000 standards.
- Power point presentation on textile industry /garment industry /Fashion industry
- Study report on visited industries

COURSE OUTCOME-

CO1:- The students will be able to analyse the industry trends and develop awareness about the standardization of textile goods, consumer agencies and services of fashion industry.

References:

- A Practical Guide to the Fashion Industry Concept to Customer by Virginia Grose, Bloomsbury Publishing Feb 25 2021
- Change in Trends in Apparel Industry by N S Kaplan Abiskeh Publ, January 2004.
- Fashion innovation and marketing by Kathryn Moore Greenwood, Mary Fox Murphy, Macmillan publisher, New York, 1978.
- Sewing for the Apparel Industry by Claire B. Shaeffer, 20011
- Textiles and Apparel in the Global Economy by Dickerson, Kitty G., Published by Prentice Hall PTR, 1995.
- The Sustainable Fashion Handbook by Sandy Black, Thames and Hudson publishers 30 April 2013

ASSAM WOMEN'S UNIVERSITY
SEMESTER-IV

Paper Title	VISUAL MERCHANDISING AND RETAILING	L	T	P	CH	CR
Paper Code	MFTE4403	2	1	1	5	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVE:

- To provide knowledge on visual merchandising and retailing,
- Role of symbols and themes in visual merchandising,
- Types of displays and display settings,
- Planning and scheduling of promotion.

Module 1: Visual Merchandising

(No. Of classes required-

10)

Theory

- Introduction to Visual Merchandising
- Elements of Visual Merchandising
- Functions of Visual Merchandising
- Relationship of color, texture, line and lighting with visual merchandising.

Module 2: Window Display

(No. Of classes required-

10)

- Introduction to Window Display, concept and purpose.
- Function of Window Display
- -Types of displays and display settings.
- Exterior and interiors of the store.
- Display materials: mannequins – types, physical characteristics, care and maintenance.
Dress forms, cut out figures, drapers and hangers.

- Dressing 3-D forms. Fixtures - stands, platforms and elevators, pipe racks and showcases.
- Assorted counter fixtures, floor and free standing fixtures – types and selection.

Module 3: Window Display and Fashion Marketing

(No. Of classes required-

10)

- Visual merchandising – objectives, factors influencing and benefits.
- Clothing display on various fixtures.
- Front to back visual presentation.
- Visual merchandising and the retailer.
- Dressing fixtures.
- Attention getting display devices - colour, light, line, scale, contrast, repetition, mirror and props.

Module 4: The Role of the Designer in Window Display

(No. Of classes required- 12)

- Role of symbols and themes in visual merchandising – age, gender, season, bridal, festival and clearance sale.
- Importance of accessories in clothing display. Graphics and signage in retail stores.
- Planning and scheduling the promotion.
- Visual merchandising and the changing face of retail.
- Study of superstore, discount, factory outlet stores and vendor shops.

Practical-

- Study of type of display and display settings, exterior and interiors of the store.
- Understanding of various display materials – mannequins and dress forms.
Importance of fixtures, their selection and clothing display.
- Role of symbols, themes and accessories in visual merchandising.
- Planning and scheduling of promotion.

Module 5: Introduction to Retailing

(No. Of classes required- 10)

- Define retailing
- The entities involved and the impact of decisions on a retail business.

- Visit to Apparel industries.

COURSE OUTCOME:

CO1:- Obtain a broad understanding of display and be able to employ strategies for making timely and attractive, profitable display decisions within retailing.

CO2:- Students will gain practical experience in the field of visual merchandising.

References-

- Applied Visual Merchandising(3rd Edition) by Kenneth H. Mills, Judith E. Paul and Kay Moormann. 2005.
- Visual Merchandising and Display by Prentice International.Martin M. Pegler, Fairchild Books Publ, 2006.
- Visual Merchandising by Tony Morgan, Laurence King publ, 2011
- Merchandising: Theory, Principles and Practice by Grace I. Kunz. Fairchild Books Publ, 2005.
- Retail Product Management: Buying and Merchandising by Rosemary Varley. Routledge publ, 2006.
- Visual Merchandising, Third edition: Windows and in-store displays for retail by Tony Morgan, 2 February 2016.
- Visual Merchandising for Fashion (Basics Fashion Management) by Sarah Bailey and Jonathan Baker, 2 January 2014
- Visual Merchandising and Display by Martin M Pegler, 1 January 2011.

ASSAM WOMEN'S UNIVERSITY

SEMESTER-IV

Paper Title	Functional Clothing/ Apparel	L	T	P	CH	CR
Paper Code	MFTE4404	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVE:-

- To enable the students to recognize the importance of portable clothing in textile/ Apparel industry.
- To develop skills for designing functional clothing for farm, industrial workers and fire fighters etc.

Course Outline-

Module 1: Introduction

(No. Of classes required-

13)

- Meaning, concept, scope of functional clothing/ Apparel.
- Clothing as a portable environment; Comfort in Clothing - principles of heat transfer in apparels, thermal insulation, breathable textiles, clothing systems for thermal protection.

Module 2: A Overview of Protective Clothing

(No. Of classes required-

13)

- Designing comfortable apparel suitable for warm and cool weather; Impact of protective clothes;
- Providing mobility in clothing- Sports clothing – Requirements, importance and designing; fastening systems in clothing. Clothing for special groups.

Module 3: Experimental Clothing design

(No. Of classes required-

13)

- Military, expecting and lactating mothers, clothing design to accommodate physical disabilities & irregularities.
- Protective clothing- farm, industrial workers, fire fighters.
- Designing locale specific sports clothes and analysis.

Module 4: Survey and visits

(No. Of classes required-

13)

Practical-

- Survey on selected functional clothing available in the market;
- Visit to Clothing units.

COURSE OUTCOME:-

CO1:- Students will be able to identify, define and solve design problems in wearable functional apparel for a variety conditions using an engineering-type design process.

References:

- A Overview of Protective Clothing - Markets, Materials, Needs, Smith W C Cookling G. 1997.
- Garment Technology for Fashion Designers. Blackwell Science. Kilgus R. (Ed.) 1999.
- Clothing Technology. Europa Lehrmittel, Textile Institute,
- Manchester Tate M & Glisson O. 1967. Family Clothing. John Wiley & Sons.
- Functional Textiles and Clothing by Abhijit Majumdar (Editor), Deepti Gupta (Editor), Sanjay Gupta (Editor)2020, published by Springer Verlag, Singapore; 1st ed. 2021 edition.

ASSAM WOMEN'S UNIVERSITY
SEMESTER-IV

Paper Title	Fashion Accessories	L	T	P	CH	CR
Paper Code	MFTGE4401	1	1	2	6	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVES:-

- To familiarize the students with special techniques of creation of fashion accessories and develop skill in them for the development of fashion accessories.
- To gain the knowledge and significance of materials and methods used in fashion accessories.
- To understand the history and various brands of Accessories and learn different rendering techniques and theme based designing.

Course Outline –

Module 1: Introduction

(No. of classes required- 13)

Theory

- Introduction and a brief history of fashion accessories
- Tools and equipment.
- Classification of fashion accessories.

Module 2: Market survey and analysis

(No. of classes required-

13)

Theory

- Study of basic types and popular brands of fashion accessories – bag, footwear, jewellery, Foot wear, hats, earrings, bags etc.
- Basic product sketching and rendering

- Material exploration
- Colour trends of fashion accessories.

Practical exercise

- Assignment on seasonal trend of fashion accessories. (spring, summer, autumn and winter)
- Students will collect data and photos of fashion accessories and prepare a presentation
- Designing and product development - foot wear, handbags, belts, buttons and buckles, hats, scarves, hosiery, jewellery, neck ties, hand kerchiefs, eye wear and watches.

Module 3: Preparation of Collection

(No. of classes required- 13)

Practical exercise

- Creation of theme boards for all accessories;
- Developing design ideas – Tribal, traditional, fusion, innovative, Mood board, Fabrication information, spec drawing
- Product development and designing buckles;
- Cost analysis of all items.
- Visit to designing units.

COURSE OUTCOMES-

CO1:- From this paper students will be able to explore the communication between apparel and accessories.

CO2:- They will also be able to exhibit special techniques of creation of fashion accessories in a creative way.

References:

- Design Ideas & Accessories by Bhargav R, Jain Publ, 2005.
- Fashion Accessories: The Complete 20th Century Sourcebook by John Peacock, Thames and Hudson publishing, London 2000.
- Know Your Fashion Accessories by Celia Stall-Meadows, TanaStufflebean, 2003.
- Fashion Design & Product Development by Harold Carr, John Pomeroy, January 1993.

ASSAM WOMEN'S UNIVERSITY
SEMESTER-IV

Paper Title	Home Furnishing	L	T	P	CH	CR
Paper Code	MFTGE4402	3	1	0	4	4

Minimum number of classes per week: 4

Minimum number of classes in a semester: 52

COURSE OBJECTIVES:-

- To develop awareness about different home textiles and furnishing
- To acquaint students about education, care and maintenance of different home textiles.

Course Outline –

Theory

Module 1: Home Textiles

(No. of classes required- 13)

- Home Textile- Introduction, properties required for home textiles, sustainable fibers and fabrics
- used for home textiles, areas of application,
- History and evolution of household textiles and furnishings,
- Classification of home textiles.
- Types of home furnishings, trends in home textile industry
- Home textile production in India-global market
- Factors affecting selection of home furnishing
- Home textile products-brands-Future of hometextiles.

Module 2: Textile for seating and Bed Linens

(No. of classes required- 10)

- Seating- Structures, lay out, Range and size – Material used – Manufacturing – Double cloth, loop pile – cut pile – cushion foam – multi layer sheets – seat covers – types and materials.
- Study of various upholstered textiles and furnishing with respect to fibre content, weave, design and finishes
- Bed Linens – Definitions – design and size – Bed spread designs – chenille and organic bedspreads – dimensions – Bed sheets – types – fitted sheets – manufacturing process – bed skirts types – mattress-pillows and pillow cover – comforts and comfort cover- Bolster and Bolstercovers -types and applications. Quilt- types– Machine, Hand quilting – Knotted and tied

Module 3: Windows and Wall Coverings

(No. of classes required- 13)

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

Module 4: Table, Kitchen and Bath Linen

(No. of classes required- 16)

- Table Linens – Place mats and table cloths – Definition – Placemats – Varieties of placemats –
- Table cloths – Types, material and manufacturing.
- Kitchen Linens – Introduction –Material used – Kitchen products – Oven mitten – Pot holder – Apron – Napkins – Doilies –Kitchen mats – Dining table cloth – tea cozy– kitchen curtain– Table runner – Kitchen rugs –Types of stitches and seams used.
- Bath Linen- Categories – bath robe – Sizes and design elements– Terry towels– Fiber used – Standard sizes –Construction of terry towels -use and care

- Selection, care and maintenance of different household textiles; floor coverings, rugs and carpets;

COURSE OUTCOMES-

CO1:- The students will be able to gain knowledge about Home furnishing materials and industry,

CO2:- Usage and care of window and wall coverings,

CO3:- Functionality and products used in seating and bed linens and analyze the categories and manufacturing process of table, kitchen and bath linens

References:

- Macalls S. 1972. Sewing in colours, Home-making, Tailoring, Mending, Soft Furnishing.
 - Hawlyn. NaikShailja D. 1996. Traditional Embroideries of India. A.P.H. Publ.
 - Pat Jones 1979. Creative Sewing - Hous hold Linen. A Studio Vista Book.
 - Rutt Anna Hong 1967. Home Furnishing.
 - John Wiley& Sons. Taylor P. 1990. Computers in Fashion Industry. Heinemann.
 - Furniture Handbook: Craft & Build Awesome Things for Your House by by Jacob E. Jones, Createspace Independent Pub, 6 December 2014.
 - Know Your Home Furnishings by Virginia Hencken Elsasser and Julia Ridgway Ridgway Sharp, 26 January 2017.
 - A Text Book of Interior Decoration by P. Parimalam, A. Andal, M.R. Premalatha, 2008.
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