



UNIVERSITY OF CALICUT

**Abstract**

General and Academic - Faculty of Science - Syllabus of MSc Fashion and Textile Designing Programme under CBCSS PG Regulations 2019 with effect from 2019 Admission onwards - Implemented- Orders Issued

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**G & A - IV - J**

U.O.No. 9755/2019/Admn

Dated, Calicut University.P.O, 24.07.2019

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*Read:-*1. U.O No.4487/2019/Admn dated 26.03.2019

2. Item No. 1 in the minutes of the meeting of the Board of Studies in Fashion Designing held on 03.07.2019

3. Remark from the Dean, Faculty of Science dated 11.07.2019.

**ORDER**

The Regulations for Choice Based Credit and Semester System for Post Graduate (PG) Curriculum-2019 (CBCSS PG Regulations 2019) for all PG Programmes under CBCSS for Affiliated Colleges and SDE/Private Registration w.e.f. 2019 admission has been implemented vide paper read first above.

The meeting of Board of Studies in Fashion Designing held on 03.07.2019 has approved the Syllabus of M.Sc Fashion and Textile Designing Programme in tune with the new CBCSS PG Regulations with effect from 2019 Admission onwards, vide paper read second above.

The Dean, Faculty of Science has approved the minutes of the meeting of the Board of Studies in Fashion Designing held on 03.07.2019, vide paper read third above.

Under these circumstances , considering the urgency, the Vice Chancellor has accorded sanction to implement the Scheme and Syllabus of M.Sc Fashion and Textile Designing Programme in accordance with the new CBCSS PG Regulations 2019, in the University with effect from 2019 Admission onwards, subject to ratification by the Academic Council.

The Scheme and Syllabus of M.Sc Fashion and Textile Designing Programme for affiliated colleges in accordance with CBCSS PG Regulations 2019, is therefore implemented in the University with effect from 2019 Admission onwards.

Orders are issued accordingly. (Syllabus appended).

Biju George K

Assistant Registrar

To

The Principals of all Affiliated Colleges

Copy to: PS to VC/PA to PVC/ PA to Registrar/PA to CE/JCE I/JCE V/DoA/EX and EG Sections /GA I F/CHMK Library/Information Centres/SF/DF/FC

Forwarded / By Order

Section Officer

**UNIVERSITY OF CALICUT**  
**THENHIPALAM, CALICUT UNIVERSITY P.O -673635**



**DEGREE OF**

**MASTER OF SCIENCE (M. SC)**

**IN**

**FASHION AND TEXTILE DESIGNING**  
**(CHOICE BASED CREDIT AND SEMESTER SYSTEM PG – (CBCSS PG -2019)**

**UNDER THE**

**FACULTY OF SCIENCE**

**SYLLABUS**  
**(FOR THE STUDENTS ADMITTED FROM THE ACADEMIC YEAR 2019 – 20 ONWARDS)**

**BOARD OF STUDIES IN FASHION DESIGNING(Single Board)**  
**THENHIPALAM, CALICUT UNIVERSITY P.O**  
**KERALA, 673 635, INDIA**  
**AUGUST, 2014**

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# REGULATIONS

## FOR THE DEGREE OF M.Sc ( FASHION AND TEXTILE DESIGNING)

Effective From The Academic Year 2019 – 20

### 1. TITLE OF THE PROGRAMME:

This programme shall be called **Master of Science in Fashion and Textile Designing** under Choice Based Credit and Semester System for Undergraduate (PG) Curriculum -2019.

### 2. PROGRAMME OBJECTIVES

FASHION is the sphere of activity . It entails the ability to decipher the contemporary and translate it into meaningful and visionary codes. Fashion Designers must pursue their own identity and act courageously.

The fashion industry is becoming increasingly complex, requiring higher caliber skills than ever before. However, the future prospects of the industry are not yet armed with those analytical, technical and digital skills required to propel the industry forward. Post Graduation in Fashion is in a unique position to help bridge the skills gap for new joiners and help the industry upskill their existing workforce.

Upon successful completion of the course, students will:

1. Integrate fashion design in the business context and use knowledge to discern consumer psychology, markets, and trends to create strategically targeted product lines.
2. Collaborate with design, merchandising, management, and specialty groups to make informed garment design decisions.
3. Demonstrated an understanding of the professional field and restraints; the ability to deal with requests thus being able to interpret their own work

### 3. ELIGIBILITY CRITERIA FOR ADMISSION

- The admission to this programme will be as per the rules and regulations of the University for PG admissions.
- Basic eligibility for M.Sc Fashion and Textile Designing is with at least 50% marks or equivalent grade in core and complementary (Part III) in :
  - B.Sc Costume and Fashion Designing
  - or any equivalent /recognized Degree in the concerned area
  - or any Degree with one year Diploma in the concerned area.

- OBC /OEC candidates are eligible to relaxation upto 5%. SC/ST candidates need only to get a pass.
- The eligibility criteria for admission shall be as announced by the University from time to time.

#### 4. DURATION OF THE PROGRAMME

1. The minimum duration for completion of a four semester PG Programme is two years. The maximum period for completion is 4 years.
2. The duration of each semester shall be 90 working days, inclusive of examinations, spread over five months.
3. Odd semesters shall be held from June to October and even semesters from November to March subject the academic calendar of the University.

#### 5. LANGUAGE OF EXAMINATIONS

- The language of writing the examination shall be English only.

#### MEMBERS OF BOARD OF STUDIES IN FASHION DESIGNING (Single Board )

1. **Smt. Reena A. R**, Assistant Professor, Christ College, Irinjalakuda (Chairperson)
2. **Smt. M P Sajita**, Co-ordinator cum Assistant Professor, Centre for Costume & Fashion Designing University of Calicut
3. **Smt. Sindhu Francis** Assistant Professor, Nirmala College of Arts & Science, Chalakudy
4. **Smt. Sreelakshmi**, Assistant Professor, Holy Cross Institute of Management and Technology, Calicut.
5. **Smt. Jogitha K.** Assistant Professor, Holy Cross Institute of Management and Technology, Calicut.
6. **Smt. Betty Varghese**, Assistant Professor, Nirmala College of Arts & Science, Chalakudy
7. **Smt. Sreelakshmi S**, Assistant Professor, Centre for Costume & Fashion Designing, University of Calicut

## M.Sc FASHION AND TEXTILE DESIGNING

### PROGRAMME STRUCTURE

LEGEND	
Item	Description
C	Credits
CA	Continuous Assessment
ESE	End Semester Evaluation
L	Lecture Hours
P	Practical Hours
Tot	Total

SEMESTER I										
Course No	Course Code	Course Name	Credits	Weightage			Hrs /week			Total Hrs/ Sem
				CA	ESE	Tot	L	P	Tot	
1.1	FTD1C01	Research Methodology	4	1	4	5	5	0	5	80
1.2	FTD1C02	History of Fashion	4	1	4	5	5	0	5	80
1.3	FTD1C03	Technical Textiles	4	1	4	5	5	0	5	80
1.4	FTD1L01	Advanced Fashion Illustration – Lab	4	1	4	5	0	5	5	80
1.5	FTD1L02	Fashion CAD - Lab	4	1	4	5	0	5	5	80
1.6	FTD1A01	Ability Enhancement Course (AEC)	4							
Total			20				15	10	25	
<b>Job Roles:</b>		1. CAD Operator. 2. Fashion Illustrator 3. Fashion Designer								
SEMESTER II										
Course No	Course Code	Course Name	Credits	Weightage			Hrs /week			Total Hrs/ Sem
				CA	ESE	Tot	L	P	Tot	

2.1	FTD2C04	Textile Chemistry	4	1	4	5	5	0	5	80
2.2	FTD2C05	Textile Testing and Quality Management	4	1	4	5	5	0	5	80
2.3	FTD2C06	Fashion Journalism	3	1	4	5	3	0	3	48
2.4	FTD2L03	Textile Chemistry And Testing Lab	4	1	4	5	0	5	5	80
2.5	FTD2L04	Industrial Internship- Lab	3	1	4	5	0	5	5	80
2.6	FTD2T01	Term Paper	2	1	4	5	2		2	32
2.7	FTD2A02	Professional Skill Development (Audit Course 2 )	4							
<b>Total</b>			20				15	10	25	
<b>Job Roles</b>		<ol style="list-style-type: none"> <li>1. Quality Manager</li> <li>2. Fashion Journalist</li> <li>3. Fashion Blogger</li> <li>4. Textile Dyeing Technician</li> </ol>								
<b>SEMESTER III</b>										
Course No	Course Code	Course Name	Credits	Weightage			Hrs /week			Total Hrs/ Sem
				CA	ESE	Tot	L	P	T	
3.1	FTD3C07	Weaves And Woven Structure	4	1	4	5	5	0	5	80
3.2	FTD3E01	Elective 1	4	1	4	5	4	0	4	64
3.3	FTD3E02	Elective 2	4	1	4	5	4	0	4	64
3.4	FTD2L05	Couture Wear Assembling - Lab	4	1	4	5	0	4	4	64
3.5	FTD3L06	Advanced Draping Lab	3	1	4	5	0	4	4	64
3.6	FTD3L07	Creative Textiles - Lab	3	1	4	5	0	4	4	64
<b>Total</b>			22							
<b>Job Roles</b>		<ol style="list-style-type: none"> <li>1. Textile Designer</li> <li>2. Production Manager</li> <li>3. Pattern master</li> <li>4. Fashion Buyer</li> </ol>								

<b>ELECTIVES I</b>		<ol style="list-style-type: none"> <li>1. FTD3E01a Home Furnishing</li> <li>2. FTD3E01b Art Appreciation</li> <li>3. FTD3E01c Textile Economics</li> </ol>								
<b>ELECTIVES II</b>		<ol style="list-style-type: none"> <li>1. FTD3E02a Intellectual Property Rights</li> <li>2. FTD3E02b Organizational Behaviour</li> <li>3. FTD3E02c New Generation Fibres</li> </ol>								
<b>SEMESTER IV</b>										
Course No	Course Code	Course Name	Credits	Weightage			Hrs /week			Total Hrs/ Sem
				CA	ESE	Tot	L	P	T	
4.1	FTD4C08	Fashion Business Management	4	1	4	5	5	0	5	80
4.2	FTD4E03	Elective 3	4	1	4	5	5	0	5	80
4.3	FTD4L08	Design Process And Portfolio - Lab	4	1	4	5	0	5	5	80
4.4	FTD4P01	Project Work and Dissertation	6	1	4	5	0	10	10	160
<b>Total</b>			<b>18</b>							
<b>Job Roles</b>		<ol style="list-style-type: none"> <li>1. Fashion Buyer</li> <li>2. Fashion Choreographer</li> <li>3. Merchandising Manager</li> <li>4. Marketing Manager.</li> <li>5. Retail Store manger</li> <li>6. Fashion Designer</li> <li>7. Fashion Research Scholar</li> </ol>								
<b>ELECTIVE III</b>		<ol style="list-style-type: none"> <li>1. FTD4E03a Film and Theatre Costumes - Lab</li> <li>2. FTD4E03b Fashion Forecasting - Lab</li> <li>3. FTD4E03c Knitting Technology</li> <li>4. FTD4E03d Sustainable Apparel Manufacture</li> </ol>								



## SEMESTER I

### FTD1C01 RESEARCH METHODOLOGY

Course No: 1.1

Course Code: FTD1C01

Course Name: RESEARCH METHODOLOGY

Credits: 4

Hours per week: 5

Total hours: 80

#### Course Objectives

- Understanding To understand the methodology of research, its principals and techniques.
- Develop skills in conducting research from planning a study to report writing.
- Apply statistical procedure to analyse numerical data and draw inferences.

#### Course Outline

##### Module I

**Introduction to Research and Types:** Definition, Objectives and Characteristics of Research. Types of Research- Basics, applied, action, evaluation, experimental, Surveys-Descriptive, Diagnostic and exploratory, Historical. Basic Components of any research design.

12 hours

##### Module II

**Data and methods of data collection:** Types of data- Primary and secondary data, Data sources Primary data collection methods -Direct Personal investigation, indirect oral investigations, schedules and questionnaires. Interviews and Type of interviews Pre testing and pilot study, Editing and coding of data.

12 hours

##### Module III

**Organization of data:** Classification- geographical chronological, qualitative, quantitative, frequency distribution, discrete and continuous. Tabulation of data, parts of a table, rules of tabulation, types of tables- simple and complex, preparation of blank tables.

3 hours

##### Module IV

**Representation of data Diagrammatic-**One dimensional diagrams-Bar diagrams-Simple, Multiple, Subdivided, Deviation Two dimensional diagrams-Pie, Circles, Rectangles and Squares- Pictogram and Cartography Graphical, Frequency graphs- Line, Polygon, curve Histogram- cumulative frequency graphs- Ogives.

13 hours

### Module V

**Sampling Techniques Sample design-** Different sampling Methods- probability and non-probability, sampling methods-Simple, stratified, systematic cluster, multistage, purposive Judgment, convenience, quota, snowball, accidental Sampling and Non Sampling errors

15hours

### Module VI

**Measures of central tendency and variation:** Mean,- median, - mode t- heir relative advantages and disadvantages. -Measures of dispersion, - mean deviation - Coefficient of variation,- percentiles and Standard deviation, - percentile ranks. **Tests of Significance:** Large and small samples - 't' and F tests, tests fibr - Independence using chi Square, - Analysis of Variance and Application

15 hours

### Reference Books:

1. Best.J.M and Kahn.J.V., Research in Education, Prentice Hall of India Ltd., NewDelhi.,1989.
2. Devadas.R.P. A Handbook on methodology of Research, Sri Ramakrishna vidyalaya, Coimbatore, 1989.
3. .Gosh.B.N., Scientific Methods and Social Research, Sterling Publishers Pvt. Itd.,New Delhi
4. .Kothari. G.R., Research Methodology, Methods and Techniques, Wiley Eastern Ltd, Delhi, I 990.
5. Kulbir Singh Sidhu, Methodology of Research in Educations, Sterling Publishers Pvt. Ltd., New Delhi, 1987.
6. Wilkinson. T.S and Bhandarkar.P.L., Methodology and Techniques of SocialResearch, Himalaya Publishing House, Bombay, 1984.
7. Gupta. S. P., Statistical Methods, Sultan Chand & Sons, New Delhi,1996

## FTD1C02 HISTORY OF FASHION

Course No: 1.2

Course Code: FTD1C02

Course Name: HISTORY OF FASHION

Credits: 4

Hours per week: 5

Total hours: 80

### Course Objectives

- To refresh the students about the Fashion history and to develop an understanding of the fashion evolution 19, 20 and 21<sup>st</sup> century Fashion.

## Course Outline

### Module I

1820- 1920 – Industrial revolution, Romanticism, Neo rococo, Victorian era, the great exhibition, Art Nouveau, Gibson girl, Great War

16 hours

### Module II

1920-1950 – Jazz age, Roaring 20's, Art deco, Surrealism, Bauhaus, World War II

16 hours

### Module III

1950-1960 – cold war, New Look, Post war romance, Rock and roll, Teddy boys, High fashion

16 hours

### Module IV

1960-1970 – space age fashion, Miniskirts, Mod and british innovation, Hippie subculture, punk, glam rock, disco

16 hours

### Module V

1970-1990 – the late 1970's pantsuit, flower power, minimalism, power dressing, super models and high fashion, neon colour, glamour wear, work wear, 1970's revival, casual chic, hiphop and goth

16hours

### Reference Books:

- Jonathan Walford – Forties Fashion
- Mcdowell's directory of twentieth century fashion

## FTD1C03 TECHNICAL TEXTILES

Course No: 1.3

Course Code: FTD1C03

Course Name: TECHNICAL TEXTILES

Credits: 4

Hours per week: 5

Total hours: 80

### Course objectives

- To refresh the students about the new generation textile
- To understand various functional textiles.
- To understand various new developments in textiles.

## Course Outline

### Module I

**Introduction to technical textile;** classification -Technical fabric - structures in woven knitted and non-woven structures.**Home textiles**-Introduction – classification- Latest trends in bed linens- kitchen linens – woven and non-woven floor coverings – window treatments and wall coverings. (latest updates to be included)

16hours

### Module II

**Medical Textiles** – Introduction – classification – implantable – non implantable and extra corporeal devices - application of non-wovens in medical sector Latest inventions in medical textiles  
**Geo Textiles** ;Introduction – classification- application of woven, knitted and non-woven in geo textiles -. (latest updates to be included)

16 hours

### Module III

**Nano textiles and micro fibres** - Introduction – nano fibers- yarns and fabrics –introduction to micro fibres – scope- latest updates to be included **Defense , protective and transportation textiles** - Introduction – types of protective textiles – types of transportation textiles - textiles in defense – scope- latest updates to be included

16hours

### Module IV

**Sustainable textiles and Smart Textiles**- Introduction – eco- friendly textiles – herbal textiles - interactive electronic textiles – lifesign monitoring textiles - latest updates to be included

16 Hours

### Module V

**Finishes Given to Technical Textiles**–Mechanical – calendaring – raising – sheering – shrinkage and heat setting – chemicals; flame retardant – water repelling – anti static – anti microbial - latest updates to be included

16hours

### Reference Books

- Horrocks, A.R. and Anand, S.C., Handbook of Technical Textiles, The Textiles Institute, Wood Head Publishing Ltd., England, 2000.
- Rigby, A.J. and Anand, S.C., Non-wovens in Medical and Healthcare Products, Technical Textiles, Int., 1996.
- Pandey, S.N., Potential for the use of Natural Fibres in Civil Engineering, Jute Technological Research Laboratory.
- Ranganathan, S.R., Jute Geo Textiles in Soil Erosion Control, Jute Technological Research Laboratory.
- Sabit Adanur, Industrial textiles, Wellington Sears Publications

## **FTD1L01 ADVANCED FASHION ILLUSTRATION – LAB**

Course No: 1.4

Course Code: FTD1L01

Course Name: ADVANCED FASHION ILLUSTRATION - LAB

Credits: 4

Hours per week: 4

Total hours: 64

### **Course Objectives**

- Understanding the concepts related to the fashion illustration and illustrators
- Identifying different art medias and its application
- To enable the students to work outward from a point of focus or inspiration to develop a complete collection.

### **Course Outline**

#### **Module I**

- Defining your style – A range of 10 illustration that reflects your style and personality 16 hours

#### **ModuleII**

- Illustrators and their styles – Erte, GeorgeBarbier, Rene Gruau, Rene Lalique. 16 hours

#### **Module III**

- Technical pack – digital flat sketches and tech pack 32 hours

#### **Module IV**

Rendering- different fabric textures and prints rendering (min of 10 illustration) 16 hours

### **Reference Books:**

- Alexander Suhner Isenberg – Technical drawing for fashion design basic course book
- Bethan Morris- Fashion Illustrators
- Essentials of colours in Fashion illustrations.

## **FTD1L02 FASHION CAD– LAB**

Course No: 1.5

Course Code: FTD1L02

Course Name: FASHION CAD - Lab

Credits: 4

Hours per week: 5

Total hours: 80

### **Course Objectives**

- Understanding the computer design software in fashion illustration
- Understand pattern making and grading in computers using software
- To enable the students to work in computer fashion related softwares and presentation.

### **Course Outline**

#### **Module I**

- Draw 10 head female and male croqui –illustrate a fashion croqui defining your style

16 hours

#### **Module II**

Design Garments for the following using design software;

- Party Wear – Women, Men, Children.
- Sports Wear- men and Women,
- Formalwear –men and women –
- Summer Wear - Children, men and women.

16 hours

#### **Module III**

- Design Technical pack for -digital flat sketches and tech pack for any one of the above designed garments – men and women each

16 hours

#### **Module IV**

- Prepare pattern for basic block and grade it to a size up and down
- Prepare pattern for any one of the above designed garment – men and women each.

16 hours

#### **Module V**

Prepare marker plan for the above prepared patterns - men and women each.

16 hours

**Print all the work and bind for record.**

### **Reference Books:**

- Fashion Computing- Design Techniques and CAD by Sandra Burke by Burke Publishing.
- Digital Fashion Illustration with Photoshop and Illustrator by Kevin Tallon

## **FTD1A01 ABILITY ENHANCEMENT COURSE (AEC) - AUDIT COURSE- 1**

Course Number: 1.6

Number of Credits: 4

Course Evaluation: 100 % (Internal)

Examination : 2 hrs

Weightage : 20

### **Course Evaluation & Course Credit**

The Ability Enhancement Audit Course has 4 credits which will not be counted for evaluating the overall SGPA & CGPA. The College/Department shall conduct examination of 2 Hrs duration with a minimum of 20 weightage before the conclusion of first semester classes and have to intimate /upload the results of the same to the University on the stipulated date during the III Semester. Students have to obtain only minimum pass requirements in this Audit Course.

### **Course Delivery Mode**

This course is an Ability Enhancement Audit Course. The course content is not delivered in the classrooms. Instead, the students have enroll themselves for the online course offered at NPTEL, MOOC etc. The online course is available at <https://nptel.ac.in/courses/121106007/>. Students can either view the video module online or can download the video lessons and transcripts to view or read them offline.

The student can attempt any one of the following for securing 4 credits.

1. Communicative Skill Development Course
2. Community Linkage Programme in a nearby Local Government.
3. One Case Study analysis approved by the Department Council.
4. One Seminar Presentation of 15 minutes duration, on a relevant topic.
5. An internship in an academic /research institution or in any related organization suitable to the topic under study, under a supervisor / teacher official.
6. Review of one recently published book related to Fashion

### **References:**

1. Video Lessons and Transcripts available (including in the regional language) at [https://nptel.ac.in/courses/nptel\\_download.php?subjectid=121106007](https://nptel.ac.in/courses/nptel_download.php?subjectid=121106007)

## SEMESTER II

### FTD2C04 TEXTILE CHEMISTRY

Course No: 2.1

Course Code: FTD2C04

Course Name: TEXTILE CHEMISTRY

Credits: 4

Hours per week: 5

Total hours: 80

#### Course Objectives

- To develop the holistic understanding of the textile processing in the apparel industry
- To identify the effects of various types of finishes on the fabrics and the garments, changes occurring in their properties and their end uses in the apparel sector.

#### Course Outline

##### Module I

**Chemistry of natural and regenerated fibers:** introduction – definition – need – molecular structure – of (cotton flax, wool, rayon acrylic) properties; longitudinal and cross sectional – action of acid and alkalies.

11 hours

##### Module II

**Chemistry of synthetic fibers;** polyester- terylene – Dacron –polyamide (nylon 6, 66) –polypropylene – acrylonitrile fibers **Chemistry dry and wet processing of textiles;** environmental requirements in wet processing.

16 hours

##### Module III

**Chemistry of dyeing and Bleaching agent;** theory of colour – chromophore and auxochrome – bathochromic and hypochromic – classification of dye – direct, acid and basic, reactive and vat dyes mordant dye, disperse dye, bleaching agent- bleaching by oxidation and reduction bleaching action of hypochlorite – bleaching powder, hydrogen-peroxide,

18 hours

##### Module IV

**Chemistry of and Printing** Water, wetting agents, electrolytes, solvents, dispersing agents, oxidizing and reducing agents, cationic fixing agents, sequestering agents, retarding agents, carriers, hygroscopic agents, stabilizers, discharging agents etc. Thickening agents- natural, modified and



synthetic.methods of printing – definition types, cottage and industrial level- direct style – block, stencil, screen, roller, Finishing and after treat of printed good,printing defects.

10 hours

### Module V

**Finishes - Preparatory processes** Cellulosics- desizing, scouring, bleaching, mercerizationProtein- degumming, weighting, dewaxing, scouring, bleaching, carbonizing, milling Man-made- scouring, bleaching, heat setting(ETP)

10 hours

### Module VI

**Finishes - Handle and Appearance**method of application and evaluation of Softening and Stiffening finishes, optical brightening agents,Peach finish ,Enzymatic finishes- bio-polishing,stone wash, sand wash etc.Special calenderingRecent trends in textile processing, textile pollution caused by textile processing unit, effluent treatment(ETP)

15 hours

### Reference Books

- Principles of Textile Testing – J.E.Booth, Newness Butterworth, London
- Textile Testing and Analysis – Billie J. Collier and Helen E. Epps, Prentice Hall, New Jersey
- Textile Testing – John H. Skinkle, Brooklyn, New York
- Handbook of Textile Testing and Quality Control – Groover and Hamby
- Paula J. Myers-McDevitt, Apparel Production Management and the Technical Package
- Booth J.E., Principles of Textile Testing, CBS Publishers and Distributors, NewDelhi, 1996.

## FTD2C05 TEXTILE TESTING AND QUALITY MANAGEMENT

Course No: 2.2

Course Code: FTD2C05

Course Name: TEXTILE TESTING AND QUALITY MANAGEMENT

Credits: 4

Hours per week: 5

Total hours: 80

### Course Objectives

- Understanding the concepts of testing and quality parameters
- To understand the international and national quality standards in textile.

### Course Outline

## Module I

Importance Of Textile Testing And Analysis -Objectives & importance of textile testing.Importance of standards, different types of textile standards, Introduction to internal bodies such as ISI,ASTM, BIS and AWTA, national and international organizations involved in textile testing, Qualitycontrol of textile products. Quality standards as applicable to various types of textiles (Garments yardage, knits, woven, carpets, processing, dyeing), ecolabels- woolmark, silkmark

16 hours

## Module II

**Fiber Dimensions:**Fiber Fineness, Methods of measuring fiber fineness Fiber length, methods ofmeasuring fiber length Fiber strength – Single fiber method, Bundle strength method.**Yarn Test:** Linear Density – Direct & Indirect system, folded yarns, methods of measuring lineardensity of yarns from packages and skeins and from a fabric sample Yarn Crimp Yarn Twist – Level oftwill and twist factor methods of measuring twist, yarn evenness and methods of assessing evenness Yarnstrength – Single strand method skein method, count strength product (CSP).

16 hours

## Module III

Testing And Evaluation Of Fabric And Garment: Strength properties of Textile &Apparel – Terminologies and definitions like force units, Breaking strength and Tensile strength, Stress,specific stress, Tenacity, Elongation, Strain, Extension, Extension percentage, Gauge length, Elasticrecovery, Force and elongation curve Factors affecting tensile testing, fabric characteristics affectingtensile properties, tensile testing machines(specify CRE, CRL,CRT) and their working principles.

16 hours

## Module IV

Principles of TQM – 4C,4 pillars of TQM -Deming’s PDCA Cycle - KAIZAN concepts – 5, S “ applications in apparel industry. Application of seven QC tools in apparel industry. QMS, management responsibility, resource management, product realization and measurement analysis & improvement – Various documents required for ISO 9001:2000 implementation and its contents – Development of quality system manual for garment industry.

16 hours

## Module V

Understanding of ISO 9001:2000 standards Documented procedures required for ISO 9001:2000 implementation – Procedures for internal quality audit – Management review meeting – Certification process – Surveillance audit..Waste Management; Textile Industry Pollution.*ETP (Effluent Treatment Plant)*., Management

16 hours

## Reference Books

- Principles of Textile Testing – J.E.Booth, Newness Butterworth, London
- Textile Testing and Analysis – Billie J.Collier and Helen E. Epps, Prentice Hall, New Jersey

- Textile Testing – John H. Skinkle, Brooklyn, New York
- Handbook of Textile Testing and Quality Control – Groover and Hamby
- Paula J. Myers-McDevitt, Apparel Production Management and the Technical Package
- Booth J.E., Principles of Textile Testing, CBS Publishers and Distributors, NewDelhi, 1996.
- 2. Saville B.P., Physical Testing of Textile, Wood Head Publishing Limited, England, 1999.
- 3. Hand Hook, B.S., Methods of Test for Textiles British Standards Institution, British Standards House, London, 1963.
- 4. Groover, 8.B., Book of Textile Testing and Quality Control, Wiley Hamby, D.S., Eastern Private Limited New Delhi, 1979.
- Eco-Textiles'98, Bolton Institute, 1998

## FTD2C06 FASHION JOURNALISM

Course No:2.3

Course Code: FTD2C06

Course Name: FASHION JOURNALISM

Credits: 3

Hours per week: 3

Total hours: 48

### Course Objectives

- Understanding the concepts of fashion journalism
- To enable the students to work as freelance fashion writers/blogging.

### Course Outline

#### Module I

**Introduction to Communication and journalism:** communication – definition – elements of communication – forms – mass communication – fashion communication.

13 hours

#### Module II

**Fashion news, reporting and writing:** Reporting basics – reporting fashion events – report catwalk, fashion shows – trends – collection- writing fashion news and features.

14 hours

#### Module III

**Fashion Journalism :** working in fashion journalism – ways into fashion journalism – fashion media and audiences – fashion related publications – photo journalism – interviewing and styling

13 hours

#### Module IV

**Fashion and new media** : Photography and videography for online – fashion blogging and social media – fashion content writing.

13 hours

### **Module V**

**Fashion and Public Relation** : fashion journalism and public relation – advertising – marketing – fashion branding.

13 hours

### **Module VI**

**Laws and Ethics** : Liable Privacy- copyright – freebies – ethics.

14 hours

### **Reference Books:**

- Marshall McLuhan- “Understanding media”
- Robert M. Lynton - “Murrow and the birth of broadcast journalism”
- Mark Briggs “Journalism next”
- Jean Burgess and Joshua Green “YouTube”

## **FTD2L03 TEXTILE CHEMISTRY AND TESTING - LAB**

Course No: 2.4

Course Code: FTD2L03

Course Name: TEXTILE CHEMISTRY AND TESTING - LAB

Credits: 4

Hours per week: 5

Total hours: 80

### **Course Objectives**

- To study the various quality tests of textiles.
- To study the advanced textile wet processing.
- To learn the various types of dyeing and printing processes.

### **Course Outline**

#### **Module I**

##### **Textile Testing**

- Fibre strength testing
- Bursting strength testing
- Tearing strength testing
- Fibre identification through burning and solubility test
- Fibre physical identification using microscope.

11 hours

## Module II

### Textile Preperatory Processing

- Degumming of silk fabric
- Carbonising of woollen fabric
- Sizing of cotton fabric
- Bleaching of one natural fabric using bleaching powder
- Bleaching of one synthetic fabric using sodium hypochlorite
- Application of optical brightening agents on one natural and synthetic fabric

17 hours

## Module III

### Textile Processing

- Dyeing of cotton fibre, yarn and fabric using direct dye with different shades and test the color fastness
- Dyeing of nylon fibre, yarn and fabric using reactive dyes with different shades and test the color fastness
- Natural dyeing on cotton fabric using dyes obtained from roots, bark, stem, flowers, and leaves

28 hours

## Module IV

### Textile Printing

- Block Printing using self made blocks of vegetable carved and wood/metal using multiple colors
- Stencil Printing on blended fabric using theme based designs with multiple colors
- Screen printing on cotton using self made screens
- Resist printing technique ; Batik with different ratios of wax with different types of motifs, floral, human, abstract
- Resist printing technique ; tie dye with multiple colors and different folding methods

24 hours

## Reference Books

- Shenai, V.A. Technology of Textile Processing, Chemistry for Dyes and Principles of Dyeing, A Sevak Publication, Bombay, 1993
- Gulrajani, M.L. Deepti Gupta, Natural Dyes and their Application to Textiles, Indian Institute of Technology, New Delh|1992
- Prayag, R.S. "Technology of Textiles Printing, L.R. Prayag, Dharwad, 1985.

## **FTD2L04 INDUSTRIAL INTERNSHIP - LAB**

Course No: 2.5

Course Code: FTD2L04

Course Name: Industrial Internship - Lab

Credits: 4

Hours per week: 5

Total hours: 80

### **Course Objective**

On completion of this course, the student should be able to:

- To gain the knowledge of work flow in boutique while learning

### **Course Outline**

- The student should undergo industrial internship of 30 days in a boutique/unit
- The report has to be submitted before the commencement of III semester
- The students should submit a product designed and stitched in the boutique/unit.
- The final documentation along with the respective company's certification shall be obtained to prove them genuine.
- External examiner will Evaluate the report, product and viva- voce

## **FTD2T01 TERM PAPER**

- Course No: 2.6
- Course Code: FTD2T01
- Course Name: TERM PAPER
- Credits: 2
- Hours per week: 2
- Total hours: 32

### **Course Objective**

- To introduce the student to the techniques of literature survey.
- To acquaint him/her with the process of presenting work through seminars and technical reports.

### **Course Outline**

- The student is expected to do an extensive literature survey and analysis in an area related to Fashion chosen by him/her, under the supervision of a faculty member from the department.
- The student should craft own approach to the field through critical-theoretical and/or creative, practice-based research.

- The study should preferably result in a critical review of the present works/design ideas/designs/theoretical contributions in the form of theorems and proofs/new methods of proof/new techniques or heuristics with analytical studies/implementations and analysis of results.
- The research paper accommodate research developed on depending on the motivation and interests of the student.
- Carry out using both primary and/or secondary material.
- The student should give a seminar on his/her work, during the semester, and submit a technical report. Technical report should be prepared in TEX in IEEE conference style format.
- Demonstrate a rigorous grasp of the appropriate theoretical, methodological and practice-related issues raised by the research.
- Evaluation can be done by a team of internal examiners.

### References:

- Articles from ACM /IEEE/INFLIBNET Journals/Conference Proceedings and/or equivalent documents, standard textbooks and web based material, approved by the supervisor.

## **FTD2A02 PROFESSIONAL SKILL DEVELOPMENT –AUDIT COURSE 2**

Course Number: 2.7

Number of Credits: 4

Course Evaluation: 100 % (Internal Component)

Examination : 2 Hrs

Weightage : 20

### **Course Evaluation & Course Credit**

The Professional Competency Audit Course has 4 credits which will not be counted for evaluating the overall SGPA & CGPA. The College/Department shall conduct examination of 2 Hrs duration with a minimum of 20 weightage before the conclusion of second semester classes and have to intimate / upload the results of the same to the University on the stipulated date during the III Semester. The Students have to obtain only minimum pass requirements in this Audit Course.

**Evaluation Criteria :** The evaluation may not necessarily be the written examination, instead it should be based on the report writing skills, presentation skills, content knowledge, public speaking, team work, leadership skills, professional communication skills etc

**Course Delivery Mode :** This course is an Professional Competency Audit Course. The course content is not delivered in the classrooms. Instead, the students have enroll themselves for the online course offered at NPTEL, MOOC etc. The online course is available at <https://nptel.ac.in/courses/121106007/>. Students can either view the video module online or can download the video lessons and transcripts to view or read them offline.

## Course Objectives

- To learn professional skills for their career development.
- To equip students with basic skills to become effective team players, problem solvers at personal interpersonal, group and organizational levels.
- To learn how to prepare an effective email professionally

## Expected outcome:

- To effectively make presentations, develop skills to manage one self, be an effective team player and demonstrate professionalism.
- Able to become a good leader and a good technical documentation writer

## Module I

Professionalism : Meaning -Definition – Characteristics - Traits and Qualities of a good professionals- Professionalism in business - Professional Skills: important soft skills for business success- Professional Presentation -- Different Presentation Postures

## Module II

Personal Skills: Developing Self-Awareness, Managing Personal Stress, Goal setting, Personal SWOT analysis, Personal productivity techniques, Solving Problems Analytically and Creatively, Positive thinking.

Interpersonal skills : Training on Johari Window - Building Relationships by Communicating Supportively, Gaining Power And Influence, Motivating Others- Building Emotional intelligence Managing Conflict.

## Module III

Group skills : Empowering and Delegating, Building Effective Teams And Teamwork, Negotiating effectively, Leading Positive Change.

## Module IV

Professional Communication Skills : Professionalism in Communication: Verbal Communication: Extempore and public speaking, Group Discussion, Building Skills for cracking Interviews, Conducting Meetings. Written Communication: Email - Significance of Email in business – Email etiquette: format - rules – dos and don'ts - Technical Documentation: Standards – Types

## Module V

Leadership skills : Games, Understanding power, Task Assignments, Role perception, organizing events, feedback.



## SEMESTER III

### **FTD3C07 WEAVES AND WOVEN STRUCTURE**

Course No: 3.1

Course Code: FTD3C07

Course Name: WEAVES AND WOVEN STRUCTURE

Credits: 4

Hours per week: 5

Total hours: 80

#### **Course Objectives**

- Understanding the weaves and fabric structure
- To understand the various weave pattern and design .

#### **Course Outline**

##### **Module I**

Weaving- Looms – Brief introduction to working of the following looms – Plain, Dobby, Jacquard, Shuttle less looms (projectile, rapier, water jet, air jet and circular loom), 3D weaving .Basic operations in weaving (Shedding, picking, beating, take up, let off), Drawing and denting plans. Elements of Woven Design – Weave repeat unit, Construction of drafts and lifting plans, Relation between design, Draft and lifting plan, Construction of drafts and lifting plans from the design.

13 hours

##### **Module II**

Classification of fabrics – Woven, Non-woven, Knitted and Braided fabrics – simple, Compound and complex. -. Interlacement diagram – Warp way and weft way. -. Graphical representation of structure of a woven fabric.- Study of plain weave. - Weave, Creation of draft, peg plan and tie-up from the weave repeat; Ornamentation of plain fabrics. Study of derivative structures of plain – Regular and irregular Warp rib, Regular and irregular-Weft rib and Regular and irregular Hopsack weaves.-. Catch-cord technique for weaving warp rib and hop-sack

13 hours

##### **Module III**

Study of twill weave up to 12 threads.-. Classification of twills – warp faced twill, weft faced twill and equal faced twill.- Angle of inclination of twill diagonals, Influence of the twist direction of yarn over prominence of twill diagonals.- Study of derivatives of twill weave – Wavy twill, Herringbone, Transposed twill- Broken twill and curved twill, Elongated combined twill and shaded twill.- Difference between various Twills -Diamond Weave. - Twill dice check.- Diaper design

15 hours

### **Module IV**

Study of Honey comb weaves – Ordinary Honey comb weaves – Single stitched, Double stitched.- Brighton Honey comb – cell formation – suitability for toweling purpose.-. Study of Huck-a-Back weaves - Study of Mock leno weaves- Differences between Ordinary Honey comb and Brighton Honey comb- Differences between Huck-a-Back and Mock Leno

12 hours

### **Module V**

Special weave effects; Study of Corkscrew weaves.- Simple Colour and weave effect; continuous line effects, extra warp figuring and extra weft figuring - hound's tooth patterns, bird's eye and spot effect, hairline stripes, step patterns, and all over effects; gauze and leno structure – double cloth

12 hours

### **Module VI**

Regular and irregular satin upto 12 threads - Regular and irregular sateen upto 12 threads.- Satin dice check- Study of Crepe weaves – Construction upon sateen base, by combination of floating weaves with plain thread, by reversing and by insertion of one weave over another.

15 hours

### **Reference Books:**

- Watson's Textile Design and colour by Z.J. Grosociki.
- Watson's Advanced Textile Design and Colour by Z,J.Grosociki.
- Structural Fabric Design by James W. Kilbbe,
- Fabric Structure by James Golak.
- Woven cloth construction by R. Mark.
- Grammar of Textile Design by H. Nisbet.
- Woven structure and Design by DoriGeomar

## **Semester III| Elective I FTD3E01 | List of Electives**

### **FTD3E01a HOME FURNISHING**

Course No: 3.2

Course Code: FTD3E01a

Course Name: HOME FURNISHING

Credits: 4

Hours per week: 4

Total hours: 64

### **Course Objectives**

- To study about home comforts
- To Learn about the types of home furnishes
- To know about the uses and choice of different materials in home furnishing.

## Course Outline

### Module I

Different types of furnishing materials – woven and non – woven, factors influencing selection of furnishings. FLOOR COVERINGS: Hard floor coverings, resilient floor coverings, soft floor coverings, carpets and rugs, cushion and pads - Use. WALL COVERINGS: Types, factors for selection, use.

10 hours

### Module II

WINDOW DRESSINGS: Different types of doors and windows – Draperies – Choice of fabrics, calculating the amount of material needed. Curtains – Types of curtains. Method of finishing draperies– Tucks or pleats. Uses of drapery rods, hooks, tape rings and pins

10 hours

### Module III

LIVING ROOM FURNISHINGS: Sofa covers, Wall hangers, Cushion, Cushion covers, pholsteries, Bolster and bolster covers.

8 hours

### Module IV

BED LINENS: Definitions, types of bed linen - sheets, blankets, blanket covers, comforters, comfort covers, bed spreads, bed skirts, duvets, mattress and mattress covers, pads, pillows and pillow covers, throw pillows, shams and theiruses

12 hours

### Module V

KITCHEN LINENS: Definitions, types of kitchen linens - dish cloth, hand towels, fridge cover, fridge handle cover, mixie cover, grinder cover - their use. TABLE LINEN: Definitions, types – table linens, table mats, table cloths and place mats, hand towels– selection – use and care.

12 hours

### Module VI

BATH LINEN: Towels – types, selection use and care. Mats and rugs –types and its uses

12 hours

### Reference Books:

- Brian. D Coleman, "Luxurious Home Interiors", Gibbs Smith Publication, Hong Kong, 2004.
- Robett Harding, "Curtains, Blinds and Valances", Eagtemoss, Ohio, 1998.
- Katrin Cargill, "Simple Curtains", Ryland Peters and Small, London, 2002.
- Charles Randall and Sharon Templeaton, "Dream Windows",Randall International Orange, California, 2003.
- Wendy Baker, "Curtain and Fabric Selector", Collins and Brown, London, 2000.
- Premavathy Seetharaman and Parveen Pannu, "Interior Design and Decoration", CBS Publishers and Distributors, 2005

## FTD3E01b ART APPRECIATION

Course No: 3.2

Course Code: FTD3E01b

Course Name: ART APPRECIATION

Credits: 4

Hours per week: 4      Total hours: 64

### Course Objectives

- To explore the visual art forms and their cultural connections across historical periods
- To understand art history, and in-depth inquiry into the elements, media and methods used in a wide range of creative processes.

### Course Outline

#### Module I

**Defining Art;** tangible thing: a painting, sculpture, photograph, dance, poem or play -relation to culture-expressive medium- wide ranges of emotion-ideas and feelings, connects us to the past, reflects the present, and anticipates the future- Visual art- it functions in societies and cultures

13 hours

#### Module II

**Art – Process and Training ;** explores artistic processes in the social contexts - covering individual artists turning their ideas into works of art, forms of collaborative creative projects, public art, and the role of the viewer

13 hours

#### Module III

**Art interpretation;** expresses ideas, uncovers truths, manifests what is beautiful, and tells stories. explore the meaning behind particular works of art within the context of various styles and cultures.

13hours

#### Module IV

**Art Works – The Principles of Visual Language ;**describe and analyse any work of art-explore the principles of design -the elements in a work of art are arranged and orchestrated-spoken language is based on phonemes, syntax,& semantics-create works that communicate ideas and meaning to the viewer

13 hours

#### Module V

**Architecture;** explores architecture, its history, and its relation to visual art - the art and science of designing structures and spaces for human use- considerations of spatial design and aesthetics- Related to sculpture, architecture creates three-dimensional objects that serve human purposes - forms visual relationships with the surrounding areas.

12 hours

### Reference Books:

- Victor Papanek, ‘Design for the Real World
- Ernst Gombrich, “The Story of Art”

## **FTD3E01c TEXTILE ECONOMICS**

Course No:3.2

Course Code: FTD3E01c

Course Name: TEXTILE ECONOMICS

Credits: 4

Hours per week: 4

Total hours: 64

### **Course Objectives**

- Understanding the marketing and management
- To understand the various activities of a business.

### **Course Outline**

#### **Module I**

An overview of Indian Textile Industry Importance Of Textile Industry in the Indian Economy, History,Growth and developments , Problems and prospect, Textile policy , Globalisation of Indian economy -merits and Demerits.Textile Industry Sectors Organizational structure, centralized and decentralized sector, Market structureOf Indian Textiles sectors: Cotton, Silk, Wool, Jute and Coir, Man-made textiles, Readymade Garments,Hand-crafted and Technical Textiles – size of these industries, developments and prospects.

13 hours

#### **Module II**

Organization and Association Related to Textile Industry WTO, VAT, GATT, Research Associations,Financial Institutions, Technological and Research Institutions and Mills Association–SITRA, NITRA,BITRA, AITRA, AJIRA, SASMIRA, IJIRA, SIMA, CMAI, WRA, NTC. Allocation and Utilization offunds,

13 hours

#### **Module III**

Indian Textile Market Domestic and Export Market - Textile fibres, yarn and fabrics, Handloom, Khadi,Power loom and Readymade garment - Development and Present Status. Export and Import, ExportPromotion Councils – PDEXCIL, CTEP, HEPC, HHEC, AEPC, ISEPC, SRTEPC-functions, schemesand role. SWOT Analysis. 15hrs Unit V Market Research Research Objectives, Research design, Trendanalysis of textile industry, Forecasting techniques. Export procedure, Export incentives, Problems inexporting textiles, Trends in Indian Export

13hours

#### **Module IV**

Hosiery Industry Introduction, scope, History, growth, production employment rate, export market andrecent developments

12 hours

## Module V

Textile Organizations and Associations Ministry of textiles, Research Associations: SITRA, BITRA, NITRA, AITRA, AJIRA, SASMIRA. Textile Associations – SIMA, Export, Textile industry- presents scenario

13 hours

### Reference Books:

- Philip Kotter, Gray Armstrong, Principles of Marketing, Prentice State of India Pvt Ltd., New Delhi, 2004.
- Survey of Indian Textile Industry 2004.
- Sankaran.S, Indian Economy. Margham Publications, Chennai-2003
- Textile Committee, Economic Survey. 2007.
- Vasant Desai, Problems and prospects of Small Scale Industries in India, Himalaya Publishing. 2004

## Semester III| Elective II FTD3E02 | List of Electives

### FTD3E02a INTELLECTUAL PROPERTY RIGHTS

Course No: 3.3

Course Code: FTD3E02a

Course Name: INTELLECTUAL PROPERTY RIGHTS

Credits: 4

Hours per week: 4

Total hours: 64

### Course Objectives

- To make students aware about the different Intellectual Property Rights for Textiles and Garments.
- To make students understand about the patents, copyright, trademarks, rights and intellectual property.
- To make the students aware about the importance of the above topics in the textile and fashion Industry

### Course Outline

#### Module I

**OVERVIEW OF INTELLECTUAL PROPERTY** Introduction and definition intellectual property right (IPR)- importance needs — Genesis and Development-IPR in India and other countries - Some important examples of IPR.

10 hours

## Module II

**PATENTS** ; definition - Macro-economic impact of the patent system -Patent and kind of inventions protected by a patent - Patent document -How to protect your inventions? -Granting of patent - Rights of a patent - extensive is patent protection - Why protect inventions by patents - Searching a patent - Drafting of a patent -Filing of a patent- The different layers of the international patent system-(national, regional and international options) what is Utility models - Differences between a utility model and a patent.

10 hours

## Module III

**COPYRIGHT**; definition – Rights covered under copyright -duration period of a copyright – its importance. What are related rights-Distinction between related rights and copyright.

10 hours

## Module IV

**TRADEMARKS**; trademark- definition – its importance and need- kind of signs to be used as trademarks.- types of trademark - function does a trademark perform - trademark registration- extensive of trademark protection - What are well-known marks and how are they protected - Domain name and how does it relate to trademarks

11 hours

## Module V

**GEOGRAPHICAL INDICATIONS** What is a geographical indication - How is a geographical indication protected – its importance and need. What is an industrial design - industrial designs be protected – duration of industrial protection -need and importance. – Franchise – licensing.

13 hours

## Module VI

**INTELLECTUAL PROPERTY**: Liable Privacy- copyright – freebies – ethics. Infringement of intellectual property rights- Enforcement Measures• Research and Intellectual Property Rights Management - Licensing and Enforcing Intellectual Property Commercializing Invention

10 hours

## Reference Books:

- AjitParulekar and Sarita D' Souza, Indian Patents Law – Legal & Business Implications;Macmillan India ltd , 2006
- B.L.Wadehra; Law Relating to Patents, Trade Marks, Copyright, Designs &Geographical Indications; Universal law Publishing Pvt. Ltd., India 2000
- P. Narayanan; Law of Copyright and Industrial Designs; Eastern law House, Delhi ,2010.

## **FTD3E02b ORGANIZATIONAL BEHAVIOUR**

Course No: 3.3

Course Code: FTD3E02b

Course Name: ORGANIZATIONAL BEHAVIOUR

Credits: 4

Hours per week: 4

Total hours: 64

### **Course Objectives**

- To make students understand the behavioural patterns of human beings in the context of an Organization
- To study about behavioural patterns of human beings at individual and group levels in the context of an Organization

### **Course Outline**

#### **Module I**

**Organizational Behavior** – Definition, Need for studying Organizational Behavior, Disciplines involved in the study of Organizational Behavior, -Contributing disciplines and area like psychology, social psychology, economics, anthropology etc. Application of Organizational Behavior in Business

12 hours

#### **Module II**

**Individual behaviour** – personality, perception, learning, attitudes inter-personal behavior – Group and inter-group behaviour

12 hours

#### **Module III**

**Group Dynamics** – Formal and Informal Group, Group Norms, Group Cohesiveness, Group Behaviour and Group Decision – making

12 hours

#### **Module IV**

**Motivation and morale**, leadership-nature, styles and approaches, development of leadership including laboratory training. Power and Authority – Definition of Power –Types of Power

12 hours

#### **Module V**

**Management of change-** conflict Management- Organisation Health, Development and Effectiveness. Management of culture, Cross Cultural Management.

12 hours



## Reference Books:

- Organizational Behaviour, India Edition, Nelson & Quick, Cengage learning.
- Organisational Behaviour, S. Fayyaz Ahamed and others, Atlantic publisher.
- Organisation Behaviour, A modern approach – Arun Kumar & N. Meenakshi Vikas publishing House PVT Ltd.,
- Behaviour in organizations, Indian Edition, Jerald Green Berg and Robert A. Baron – PHI Learning PVT Ltd.,
- Organisational Behaviour, UMA Sekaran, Tata Mcgraw Hill

## FTD3E02c NEW GENERATION FIBRES

Course No: 3.3

Course Code: FTD3E02c

Course Name: NEW GENERATION FIBRES

Credits: 4

Hours per week: 4

Total hours: 64

## Course Objectives

- To make students understand about the newly developed fibres and its applications.
- To study about the recent developments in textiles

## Course Outline

### Module I

New generation fibers: Introduction, Background, Transition to new fibers

5 hours

### Module II

The super-fiber with new performance: Introduction, basic classes of super-fiber, the need for a strong fiber, concept of "gel-spinning, The aramid fiber , Polyacetal fiber, Vinylon RM, New liquid crystalline polymers: engineering plastics, Vectran: a fully aromatic polyester fibre, Developing polyallylate fiber, use of super fibres, The future of super-fibers

15 hours

### Module III

High-tech fibers: A silk-like fiber that surpasses natural silk, ultra-fine fibers, skin-like fabrics, Chameleonic fabrics, Photochromism-controlled clothing material, Perfumed fibers, Power fibers that store solar energy, Iridescent textiles, Protein plastics with the feel of human skin

12 hours

### **Module IV**

Progression of high-tech fibers: Introduction, Biotechnology and fibers , Electronics and fibers , Cars and fibers, Fibers in space, Fibers and nuclear power, Fibers in sport, Fibers in the ocean

12 hours

### **Module V**

Fabrics for making specialty clothing: Infants, maternity, plus size, old age, uniforms and differently abled, introduction, characteristic features, principles.

6 hours

### **Module VI**

Fibers for the next generation: High-tenacity and high-modulus fibers, micro denier (ultra-fine) fibers, technological improvements, new frontier fibers (super-function fiber materials, etc.), super-biomimetic fiber materials, super-natural materials, resources recycling, Carbon fibres

14 hours

### **Reference Books:**

- Bernard P. Corbman, “Textiles : Fibre to Fabric”, McGraw Hill Book Co., Singapore, 1983.
- Sreenivasamurthy H. V., “Introduction to Textile Fibres”, The Textile Association India, Mumbai, 1998
- JarmilaSvedova ,” Industrial Textiles”, Elsevier Science Publishing Co in, ISBN – 0444-98754-1, New york, 1990

### **FTD3L05 --COUTURE WEAR ASSEMBLING - LAB**

Course No: 3.4

Course Code: FTD3L05

Course Name: COUTURE WEAR ASSEMBLING - Lab

Credits: 4

Hours per week: 4

Total hours: 80

### **Course Objectives**

- To enable the students to design and assemble the garments with the created patterns for couture wear.

### **Course Outline**

#### **Module I**

- Design ,develop and assemble the Casual wear – men’s wear and women’s wear design with cowl neck – one each

16 hours

#### **Module II**

- Design ,develop and assemble the designer Formal wear– designer shirtmen’s wear and designer top and skirt/pants women’s wear – one each  
16 hours

### Module III

- Design ,develop and assemble the couture.- housecoat with shawl collar men’s wear  
16 hours

### Module IV

- Design ,develop and assemble the couture and jacket women’s wear  
16 hours
- **Garments should be in full size based on standard chart measurement**
- **Garments should be submitted at the time of external examination**
- **Records should be submitted for evaluation at the time of examination**

### Reference Books:

1. Metric pattern cutting for women’s wear by Winifred Aldrich, Blackwell Science, Ltd.
2. Metric pattern cutting for Men’s wear by Winifred Aldrich, Blackwell Science, Ltd.
3. Couture Sewing Techniques, Claire Schaeffer , Taunton Press
4. Armstrong ‘pattern Making

## FTD3L06 ADVANCED DRAPING - LAB

Course No: 3.5

Course Code: FTD3L06

Course Name: ADVANCED DRAPING - LAB

Credits: 4

Hours per week: 4

Total hours: 64

### Course Objectives

- To enable the students to drape design for couture wear.

### Course Outline

#### Module I

**Bodice Draping-** Yoke variation, Butterfly twist, Princess Line manipulation. Collar (any 2)  
14 hours

#### Module II

**Skirts**– peg skirt, pleated skirt, gathered skirt, flared skirt, A-line skirt and cowl  
14 hours

#### Module III

**Trousers**– pleated trousers, cowl pants, playsuit, shorts and culottes  
14 hours

## Module IV

**Corseting** – with boning, underwire and cups

22 hours

- **Records should be submitted for evaluation at the time of examination**

## **FTD3L07 CREATIVE TEXTILES - LAB**

Course No: 3.6

Course Code: FTD3L07

Course Name: CREATIVE TEXTILES - LAB

Credits: 3

Hours per week: 4

Total hours: 64

## Course Objectives

On completion of this course, the student should be able to:

- To study the basics of weave and print development
- Learning the usage of various art mediums and colour theories

## Course Outline

Theme based prints and weave development

### Module I :

- Theme, research, colour story, trend research. 10 hours

### Module II :

- Print and weave development 20 hours

### Module III :

- Actualize a minimum of 2 weave samples and 6 print samples (8 samples) 14 hours

### Module IV :

- Develop a range of 10 garments (Art plate) for the samples 20 hours

## SEMESTER IV

### **FTD4C08 FASHION BUSINESS MANAGEMENT**

Course No: 4.1

Course Code: FTD4C08

Course Name: FASHION BUSINESS MANAGEMENT

Credits: 4

Hours per week: 5

Total hours: 80

#### **Course Objectives**

- Understanding the marketing and management
- To understand the various activities of a business.

#### **Course Outline**

##### **Module I**

Introduction to textile management -Definition of textile Management Production and operation management. Management- system Approach of POM- production system – Products and services- POM functions Operation strategies- Competitive priorities of textile industry productivity-productivity improvement.

12 hours

##### **Module II**

Manufacturing Operation work centers- Operation work center scheduling- sequencing- Facility layout- process layout- product layout line balancing- cellular layout. Work load and work assignments in Textile Industry-wage and salary administration Principles and techniques of wage function- Job evaluation- methods- Performance Appraisal- meaning-Methods and techniques Requisites of good appraisal plan- Performance evaluation- Feedback- Textile Industry practices

12 hours

##### **Module III**

Organisational behavior and Interpersonal behaviour in Apparel Industry - Foundations of individual behaviour - group behavior and dynamics - groups types, - cohesiveness, decision making / styles-strategies for improving decision making teams - special types of groups - types of teams- Power and political behaviour - sources of power, effective use of power. Organizational policies,- Leadership - styles, contemporary developments. Interpersonal communication - essentials, networks, Organizational design - types and their behavioural implications. Organizational change - managing change.-Organization culture - Emerging challenges in Organizational behavior, managing diversity, globalization, technology transformation, e business, promoting ethical behavior.

15 hours

#### **Module IV**

Apparel Marketing and Product Development; Definition, Function Of Marketing concept.- Marketing system. - Marketing environment.-Marketing mix Market Research and fashion Forecasting Apparel product. -Product Planning And Development planning and Product innovation development - Organization for product innovation New product, planning process Manufacturer's criteria for new product, timing of new product. Product life cycle, product mix

13 hours

#### **Module V**

Customer Relationship Management – Collecting customer data – Analyzing customer data and identifying target customers – converting good customers into best customers – dealing with unprofitable customers-Consumer behavior in apparel and fashion market

13 hours

#### **Module VI**

Managing the Boutique– Store management responsibilities – Controlling costs–Labour scheduling, store maintenance – Reducing inventory shrinkage• Boutique Design – Layouts – signage and Graphics – Feature Areas – Space management – Visual Merchandising –Fixtures, Presentation techniques- Customer Service strategies – Service recovery –Listening to customers, Providing a fair solution, Resolving problems quickly

15 hours

#### **Reference Books:**

- George E Belch, Michael B Belch, Introduction to advertising and promotion
- Varma and Aggarwal, Advertising Management 1997, Kingsbood– Educational Publishers, Delhi.
- Chuter A J, Introduction to clothing and Production Management, Om Books Services, New Delhi-95
- Darlie O'Koshy - "Garment Export's Winning strategies", Prentice Hall of India, 1997.
- Darlie O'koshy - Effective Export marketing of Apparels, Global Business Press - 1995.
- Retailing Management by Michael Levy, Barton A Weitz, Ajay Pandit
- Inside fashion Business by Dickerson Kitty G

### **Semester IV | Elective III FTD4E03 | List of Electives**

#### **FTD4E03a FILM AND THEATRE COSTUMES**

Course No: 4.2

Course Code: FTD4E03a

Course Name: FILM AND THEATRE COSTUMES

Credits: 4

Hours per week: 5

Total hours: 80

## Course Objectives

- Understanding the concepts related to the fashion illustration and illustrators
- Identifying different art medias and its application

## Course Outline

### Module I

Create a plan for a character (choose any Hollywood Classic movie) incorporating costume design, style, image and identity using visual and written presentation. - [Describe the silhouette, cuts, and decoration of garments and accessories based on the story.] - Use design elements to design costumes and ways to style it, to reflect story and characterization. arranged costume plate with styling.

20 hours

### Module II

Create a plan for a character (choose any Bollywood Classic movie) incorporating costume design, style, image and identity using visual and written presentation. - [Describe the silhouette, cuts, and decoration of garments and accessories based on the story.] - Use design elements to design costumes and ways to style it, to reflect story and characterization. arranged costume plate with styling.

20 hours

### Module III

Create a plan for a character (choose any Regional movie) incorporating costume design, style, image and identity using visual and written presentation. - [Describe the silhouette, cuts, and decoration of garments and accessories based on the story.] - Use design elements to design costumes and ways to style it, to reflect story and characterization. arranged costume plate with styling.

20 hours

### Module IV

Create a plan for a character (choose any Classic theatre – English /regional) incorporating costume design, style, image and identity using visual and written presentation. - [Describe the silhouette, cuts, and decoration of garments and accessories based on the story.] - Use design elements to design costumes and ways to style it, to reflect story and characterization. arranged costume plate with styling.

20 hours

## Reference Books

- Swanson, K., and Everett, Judith (2007). Promotion in the Merchandising Environment.(2nd). New York; Fairchild Publications.
- Rosemary Ingham, Costume Designer's Handbook: A Complete Guide for Amateur and Professional Costume Designers, (2nd ed), Prentice Hall Inc. (1983)
- Deborah Nadoolman Landis, Costume Design, Focal Press (2012)
- Kate Spade, Ruth A., Peltason, Style, Simon & Schuster (2004)

## **FTD4E03b FASHION FORECASTING - LAB**

Course No: 4.2  
Course Code: FTD4E03b  
Course Name: FASHION FORECASTING - LAB  
Credits: 4  
Hours per week: 5  
Total hours: 80

### **Course Objectives**

- Understanding the importance of Fashion forecasting in the current fashion market.
- To analyse the process of fashion forecasting types, sources, processes and services of fashion forecasting.
- Acquire knowledge on idea generation, planning and line development.

### **Course Outline**

<b>Module I</b>		10 hours
	<ul style="list-style-type: none"><li>• Learn about what is fashion forecasting and how it influence the fashion market</li><li>• Study about different forecasting companies (2 companies)</li></ul>	
<b>Module II</b>	Select a season and category and Pick a story and decode it	20 hours
<b>Module III</b>	Pick a year – analyse the fashion trends and its influence in the society.	25 Hours
<b>Module IV</b>	Pick a trend analyse its influence and predict its future.	25 Hours

### **Reference Books:**

1. Susan Dillon, “The Fundamentals of Fashion Management”, AVA Publishing (UK) LTd., 2012
2. Kathryn McKelvey and Janine Munslow, “Fashion Forecasting”, Wiley – Blackwell, USA, 2008
3. Rita Perna, “Fashion Forecasting: A Mystery or a Method”, Fairchild Publishers, USA, 1987.

## **FTD4E03c KNITTING TECHNOLOGY**

Course No:4.2  
Course Code: FTD4E03c  
Course Name: KNITTING TECHNOLOGY  
Credits: 4  
Hours per week: 5  
Total hours: 80



## Course Objectives

- Understanding the concepts of knitting
- To understand the formation of knitted fabric .

## Course Outline

### Module I

Weft Knitting Machines and Industry – Knitting Terms and Functional Elements – Selection Criteria in Weft Knitting – Principal Stitches in Weft Knitting – Basic Structures and Notations in Weft Knitting – Basic Machines and Fabrics

13 hours

### Module II

Double Knit Structures – Patterning in Weft Knitting – Needle Selection Techniques in Circular Knitting Machines – Weft Knit Fabric Geometry

14 hours

### Module III

Knitting Dynamics – Quality Control in Circular Weft Knitting – Circular Knitting Developments – Calculations in Weft Knitting

13 hours

### Module IV

Finishing of Knitted Fabrics – Wrap Knitting – Functional Elements of Wrap Knitting – Patterning in Wrap Knitting – Tricot and Raschel Machines – Principal Stitches of Wrap Knitting.

13 hours

### Module V :

Structures of Wrap Knitting – Yarn Preparation, Yarn Feed and Fabric Take-up – Wrap Knit

13 hours

### Module VI

Specialty Wrap Knits – Warp Knitted Technical Textiles – Flat Bed Knitting – Hosiery

14 hours

## Reference Books:

1. D.J. Spencer, 'Knitting Technology'.
2. D.B. Ajgaonkar, 'Knitting Technology'

## **FTD4E03d SUSTAINABLE APPAREL MANUFACTURE**

Course No:4.2

Course Code: FTD4E03c

Course Name: SUSTAINABLE APPAREL MANUFACTURE

Credits: 4

Hours per week: 5

Total hours: 80

### **Course Objectives**

- Gain knowledge about importance and concept of sustainability
- Understand features of product and process design with focus on sustainability
- Gain knowledge about sustainable manufacturing of apparel and reuse and recycling in the apparel manufacturing to achieve sustainability
- Know Corporate Social Responsibility and mandatory certification towards sustainability.

### **Course Outline**

#### **Module I**

Sustainable Product Design -Definition Of Sustainability – need for sustainability.- Factors influencing sustainability.- Impact of ecology, economy, and culture on sustainability.- Product Life Cycle. -Product design sustainability using low - impact materials, recyclable material content.- Energy efficient product design, design for longer-lasting and better-functioning products, product design for reuse and recycling. -Assessing the product sustainability. **Sustainable fibres** – organic cotton, recycled polyester, alternative sustainable fibers

20 hours

#### **Module II**

Sustainable Process Development - Sustainability through Manufacturing Resource Efficiency - raw material, plant and machinery, human resource, financial resource. Sustainable manufacture through application of alternative energy source, reuse and recycle of energy. Sustainable process through technology innovation – application of CAD / CAM / CIM in process innovation and improvement. Extending product life cycle through reuse and recycle of process waste. Assessing process sustainability

20 hours

#### **Module III**

Reuse And Recycle Of Waste - Types of wastes in textile and apparel manufacture – material waste, human resource waste, energy waste. Scope of reuse and recycle of waste in textile and apparel manufacture. Waste elimination at source in textile and apparel manufacturing

20 hours

#### **Module IV**

Compliance For Sustainability -Role of National and international regulating organizations in sustainability –Worldwide Responsible Accredited Production (WRAP).

20 hours

### Reference Books:

- Lewis, H. and Gertsakis, J. Design and Environment: A Global Guide to Designing Greener Goods, Greenleaf Publishing, Sheffield, 2001.
- Dalcacio.R, Julius.W, ‘Product Design in the Sustainable Era’, Taschen Publication. 2000
- Cynthia.L, ‘Apparel Product Design and Merchandising Strategies’, Prentice Hall, 2007.
- Janet Hethorn, Connie Ulasewicz, ‘Sustainable Fashion: Why Now? A conversation exploring issues, practices, and possibilities’, Fairchild Books, 2007.
- Ann Paulins and Julie L. Hillery, Ethics in the Fashion Industry New York, Fairchild Books, 2009. Bartlett N., Mc Gill I. and Morley N., Maximising the Reuse and Recycling of UK Clothing & Textiles, UK: Oakdene Hollins, 2009
- Liz Parker and Marsha A. Dickson, ‘Sustainable Fashion: A Handbook for Educators’ Labour Behind the Label, 2009

### FTD4L08 DESIGN PROCESS AND PORTFOLIO - LAB

Course No: 4.3

Course Code: FTD4L08

Course Name: DESIGN PROCESS AND PORTFOLIO - LAB

Credits: 4

Hours per week: 5

Total hours: 80

### Course Objectives

- To study the design process and to enable the students to present their creative collection using appropriate professional techniques

### Course Outline

#### Inspiration Based Garments

<b>Module I</b>	: Inspiration, research – primary and secondary.	6 Hours
<b>Module II</b>	: Ideation –colour fabric – sketches	24 hours
<b>Module III</b>	: Sketches – manipulation – iteration – range development	30 hours
<b>Module IV</b>	: Art plate and presentation	20 hours

Preparation for Fashion Show and organizing the show for which the Internal Marks will be awarded. External Marks will be given for Garments and completion of Portfolio with complete Bio - Data, Story Board and Designs (Viva).

### **Reference Books:**

- Elinor Renfrew and Colin Renfrew – Developing a collection

## **FTD4P01 PROJECT WORK AND DISSERTATION**

Course No: 4.4

Course Code: FTD4P01

Course Name: PROJECT WORK AND DISSERTATION

Credits: 6

Hours per week: 10

Total hours: 160

### **Course Objectives**

On completion of this course, the student should be able to:

- To gain the knowledge to do a research work while learning

### **Course Outline**

Dissertation work

- The student has to work on topic related to fashion or textile
- An introductory synopsis shall be submitted on the commencement of the semester.
- A topics has to be approved by their respective guides
- A monthly report on the work in progress should be produced.
- Three products has to be submitted with the dissertation report
- The student should demonstrative material thinking, dissertation skill, appropriate theoretical literacy and methodology in the project
- The work of the students will be supervised and assessed by the faculty members who will award the internal marks.

**One internal and one external examiner will evaluate the dissertation report, product and viva voce.**

## APPENDIX A – Mark Split Up For Practical, Port Folio And Project

**For Practical ( LAB)** The break up for external evaluation of Practical is as follows

Distribution	Percentage
Implementation	40
Output / Result	20
Record	20
Viva	20
<b>Total</b>	<b>100</b>

**Industrial Internship:** The break up for external evaluation of internship is as follows.

Components	Percentage
Project Report	50
Product	30
Viva	20
<b>Total</b>	<b>100</b>

**Port Folio:** The break up for external evaluation of internship is as follows.

Distribution	Percentage
Portfolio Theme and Organization	40
Layout	30
Presentation	20
Viva	10
<b>Total</b>	<b>100</b>

**Project and Dissertation:** The break up for external evaluation of project and dissertation

Components	Percentage
Title	10
Review of Literature	20
Method of Study	20
Result and Discussion	30
Summary and conclusion	10
Bibliography	10
Total	100

**APPENDIX B – Guidelines for Project Report & Layout**

**Cover Page and First Page**

**<<TITLE>>**  
**A PROJECT REPORT**

**SUBMITTED BY**  
**<<NAME OF THE STUDENT>>**

Under the guidance of

.....

In the partial fulfillment for the award of the Degree in  
B. Sc Costume and Fashion Designing

**<<COLLEGE EMBLEM>>**  
**<<NAME OF THE DEPARTMENT>>**  
**<<NAME OF THE INSTITUTION>>**  
**(AFFILIATED TO THE UNIVERSITY OF CALICUT)**  
**<<ADDRESS>>**

**MONTH YEAR**

**Acknowledgement**

**ACKNOWLEDGEMENT**

I would like to thank .....

Date:

Name of the Student

New Page/

---

**Declaration by the Student**

**DECLARATION**

I do hereby declare that this project entitled..... carried out by me in partial fulfillment of requirement for the award of graduates' degree in Costume and Fashion Designing under University of Calicut, is a bonafide record of the work done by me independently and has not been submitted in any other institution.

Date:

Signature:  
Name:  
Reg. No.:  
Semester

**Certificate from Guide & HoD**

**COLLEGE NAME**

**CERTIFICATE**

This is to certify that the project entitled..... has been carried out by Ms/Mr..... in partial fulfillment of the requirement for the Degree in B. Sc Costume and Fashion Designing, University of Calicut, during the year..... This is a bonafide record of the work done by her, under my guidance and supervision.

Signature  
<<Name Project Guide>>  
<<Designation>>

Signature  
<<Name of the HOD>>  
<<Designation>>



**PROJECT EVALUATION REPORT OF THE EXAMINERS**

Certified that the candidate was examined by us in the Project Viva Voce Examination held on .....  
..... and his/her Register Number is .....

**Examiners:**

- 1.
- 2.



Contents

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<b>Sl No.</b>	<b>Contents</b>	<b>Page No.</b>
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2	Review of literature 2.1 Research Review 2.2 Study/literature review	
3	Methodology 3.1 Material and Method 3.2 Research Methods	
4	Results and Discussion 4.1 Test Results 4.2 Discussion based on the results	
5	Summary and Conclusion 5.1 Findings 5.2 Suggestions 5.3 Conclusion	
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**LIST OF TABLES**


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## Abstract

# ABSTRACT

The abstract consists of a single, concise paragraph describing the purpose, procedure and results of your study. Use no more than 100 words. Somebody unfamiliar with your project should have a good idea of what it's about having read the abstract alone and will know whether it will be of interest to them. An abstract is a section at the beginning of a report, dissertation, thesis or paper summarizing the contents, significant results and conclusions of said document. It allows people to rapidly ascertain the documents purpose and if the document will be useful for them to read.

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## 1. INTRODUCTION

The goal of this section is to combine information about the setting of the project and the story behind the project into a smooth narrative that gets the reader engaged in your work's context.

- 1.1 **Scope:**
- 1.2 **Aim:**
- 1.3 **Objectives:**

## **2. REVIEW OF LITERATURE**

**2.1 Research Review:**

**2.2 Study/Literature Review**

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## **3. METHODOLOGY**

**3.1 Material and Method**

**3.2 Research Methods**

## **4. RESULTS AND DISCUSSIONS**

### **4.1 Test Results**

### **4.2 Discussion based on the results**

**Page**

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## **5. SUMMARY AND CONCLUSION**

The purpose of this section is to provide a summary of the whole project. In this context, it is similar to the Abstract, except that the Abstract puts roughly equal weight on all report chapters, whereas the Conclusion chapter focuses primarily on the findings, conclusions and/or recommendations of the project.

### **5.1 Findings**

### **5.2 Suggestions**

### **5.3 Conclusion**

## 6. BIBLIOGRAPHY

Ideas or contents taken from other sources should be properly cited. It is important that you give proper credit to all work that is not strictly your own, and that you do not violate copyright restrictions. References should be listed in alphabetical order of authors' surname, and should give sufficient and accurate details..



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## 7. APPENDIX

- 7.1 Patterns
- 7.2 Photographs
- 7.3 Questionnaire



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### General Rules: STYLE OF PRESENTATION

1. Report Length: 50 to 70 pages excluding Appendix and Certificates
2. Alignment: Justify
3. Font: Times New Roman
4. Font size: 12
5. Line spacing: 1.5

## APPENDIX C - MODEL QUESTION PAPERS

### FIRST SEMESTER M.SC. DEGREE EXAMINATION

#### FTD1COO2 History of Fashion

Time: 3 Hours

Maximum: 30 weightage

**1. Answer any Four Questions. Each question carries 2 weightage.**

(2x 4 = 8 weightage)

1. Define Rococo?
2. What is Great Exhibition?
3. Describe Dior's New look?
4. What the Gibson Girls style?
5. Name any two changes happened in Fashion after WW II.
6. define teddy boys style?
7. List out the application of knitted fabrics in geo textiles

**2. Short Essay Type - Answer any Four (Each question carries 3 weightage)**

(3 x 4 = 12  
weightage)

8. Explain two architectural features during art decor.
9. Describe the influence of surrealism in Elsa Schiaparelli's work.
10. Write the importance of roaring 20' explain any 2 styles involved during this time?
11. Describe utility clothing.
12. Write about the influence of orientalism in early 20<sup>th</sup> century.
12. Explain the hippie subculture.
14. Explain la-belle Epoque.

**3. Answer any two Essay Questions. Each question carries 5 weightage**

(5 x 2 = 10 weightage)

15. Explain the post industrial revolution fashion cultures and its importance.
16. Explain the influence of minimalism and purism in the fashion history?
17. Explain the Flower power era of 1960's.
18. write an essay on the power dressing era of 1980's.

## FIRST SEMESTER M.SC. DEGREE EXAMINATION

### FTD1COO3 Technical Textile

**Time: 3 Hours**

**Maximum : 30 weightage**

**4. Answer any Four Questions. Each question carries 2 weightage.**

(2 x 4 = 8 weightage )

1. What are technical textiles?
2. What is nonwoven
3. What are floor coverings?
4. What are mobile textiles?
5. Name any two medical textiles and its uses.
6. What are sustainable fabrics?
7. List out the application of knitted fabrics in geo textiles

**5. Short Essay Type - Answer any Four (Each question carries 3 weightage)**

(4 x 3 = 12 weightage )

8. Explain various parameters of woven fabrics as technical textiles
9. Explain the latest trends in home textiles
10. Explain the importance of sustainable fabrics and method of production
11. Explain the application of nano technology in textile
12. What are protection textiles?
13. Explain various production methods of non wovens.
14. Explain the future scope of smart textiles.

**6. Answer any two Essay Questions. Each question carries 5 weightage**

(5 x 2 = 10 weightage )

15. What are medical textiles? Explain various types of medical textiles.
16. What are the functions of geo textiles and latest trends in geo textiles?
17. Explain various trends in transportation textiles.
18. Explain the scope of technical textiles and smart textiles in current world.



## SECOND SEMESTER M.SC. DEGREE EXAMINATION

### FTD2C006 Fashion Journalism

**Time: 3 Hours**

**Maximum : 30 weightage**

**1. Answer any Four Questions. Each question carries 2 weightage.**

(2x 4 = 8 weightage)

1. What is communication?
2. What is encoding and decoding?
3. Fashion blogging?
4. What is content writing?
5. What is an Ad copy.
6. Write about any fashion related publication.
7. Copyright issues in fashion industry?

**2. Short Essay Type - Answer any Four (Each question carries 3 weightage)**

(5x 4 = 12 weightage )

8. How to report Fashion events.
9. What are the pre-requisites of conducting an interview?
10. What are the influences of social media in determining Fashion trends?
11. Explain the features of web writing.
12. Explain briefly about mass communication and its functions
13. Explain the ethical issues in fashion journalism.
14. Write about the steps in fashion content writing?

**3. Answer any two Essay Questions. Each question carries 5 weightage**

(5 x 2 = 10 weightage)

15. What a news feature report on a Fashion event happened in your city?
16. What is fashion communication? Write its importance in the current Fashion business?
17. Explain public relation? Write about the importance of publicity in fashion industry.
18. Who is a fashion journalist? What are the ethical issues faced by fashion journalist?

## SECOND SEMESTER M.SC. DEGREE EXAMINATION

### FTD1C002 Textile Chemistry

**Time: 3 Hours**

**Maximum : 30 weightage**

**Answer any Four Questions. Each question carries 2 weightage.**

(2x 4 = 8 weightage)

1. What is dry processing in textiles?
2. What is Bleaching
3. What are the uses of Dacron?
4. What is chromophore
5. Name any two industrial printing methods.
6. What are Nylon6 and Nylon 66 made?
7. List out the properties of acrylic fabrics

**Short Essay Type - Answer any Four (Each question carries 3 weightage)**

(3x 4 = 12 weightage)

8. Explain the action of acid on Cotton
9. Explain the latest trends in textile processing
15. Explain the importance of ETP in textile industry
16. Explain the longitudinal and cross sectional view of flax
17. What are preventive measures for the pollution caused by textile industry
18. Explain various production methods of bleaching
19. Explain the bathochromic and hyphochromic dyes

**Answer any two Essay Questions. Each question carries 5 weightage**

(5 x 2 = 10 weightage)

15. What are wet processing in textiles? Explain various processes.
16. Write a note on classification of dyes
17. Explain the cottage and industrial methods of printing
18. Explain the types of natural, regenerated and synthetic fibres.

**THIRD SEMESTER M.SC. DEGREE EXAMINATION**  
**FTD2C005 Textile testing and Quality management**

**Time: 3 Hours**

**Maximum : 30 weightage**

**Answer any Four Questions. Each question carries 2 weightage.**

(2x 4 = 8 weightage)

1. What is AWTA
2. What is CSP
3. What is TQM
4. What is tensile strength
5. What is 5s
6. What is yarn crimp and yarn twist
7. For what standards does ISO 9000 stands

**Short Essay Type - Answer any Four (Each question carries 3 weightage)**

(3x 4 = 12 weightage)

8. Explain the national and international organization involved in textile testing
9. Explain the methods of measuring fibre fineness
10. Write briefly about ecolabels
11. Write a note about quality standards for waste management in textile industry
12. Explain the importance of Deming's PGDCA cycle
13. Write briefly the testing methods of fibre fineness and fibre length
14. Explain the importance of quality standards in management of textile industry

**Answer any two Essay Questions. Each question carries 5 weightage**

(5 x 2 = 10 weightage)

15. Explain the document, procedures and stages of ISO 9000:2000 certification
16. Explain the development of quality system manual for garment industry
17. Explain the various testing and evaluation methods of fabric
18. What are testing methods for testing yarn and fibre

## THIRD SEMESTER M.SC. DEGREE EXAMINATION

### FTD3C007 Weaves and woven structures

**Time: 3 Hours**

**Maximum: 30 weightage**

**Answer any Four Questions. Each question carries 2 weightage.**

(2x 4 = 8 weightage)

1. Define 3D weaving
2. What is Hopsack Weaves?
3. What is the Huck –a- back?
4. What is irregular satin?
5. Name the uses of honey comb weaves.
6. What I draft and peg plan?
7. List out the types of twillweaves

**Short Essay Type - Answer any Four (Each question carries 3 weightage)**

(3 x 4 = 12 weightage )

8. Explain the difference between ordinary and brighten honey comb.
9. Describe the types of shuttle less looms.
10. Write the importance special weave effects?
11. Explain the basic operation in weaving.
12. Write about the plain, dobby and jacquard looms.
12. Explain the extra warp and weft figuring in weaving
14. Explain the process of making crepe weave

**Answer any two Essay Questions. Each question carries 5 weightage**

(5 x 2 = 10 weightage)

15. Explain the classification of fabrics.
16. Explain the basic weaves and derivatives
17. Explain the honey comb weave, types with the construction of draft and peg plans
18. write a note on design and pattern in weaving.

## FOURTH SEMESTER M.SC. DEGREE EXAMINATION

### FTD4C008 Fashion Business Management

**Time: 3 Hours**

**Maximum : 30 weightage**

**1. Answer any Four Questions. Each question carries 2 weightage.**

(2x 4 = 8 weightage)

1. Relationship between demand and pricing
2. Duty drawback
3. CMT cost
4. Subsidy
5. Job appraisal
6. Method of performance appraisal
7. Timing of new product

**2. Short Essay Type - Answer any Four (Each question carries 3 weightage)**

(3x 4 = 12 weightage)

8. Explain the Role of bank in development of textile industry
9. Define the Functions of DIC and SISI giving emphasis to apparel sector
10. Write briefly about Methods of job evaluation
11. Write in detail PLC
12. Explain the importance and need of Performance appraisal.
13. Write briefly about merchandising explain the role of merchandisers
14. Explain the importance of visual merchandising in apparel sector

**3. Answer any two Essay Questions. Each question carries 5 weightage**

(5 x 2 = 10 weightage)

15. Explain the principles and functions of textile management
16. Stages of a new product development
17. Objectives, benefits and methods of advertisement
18. What is POM and its functions