



**ST. ANTONY'S COLLEGE
PERUVANTHANAM**

*Affiliated to MG University, Accredited by Govt of Kerala
PH:04869281191, 7994188191*



CRITERION 1 CURRICULAR ASPECTS

1.3 CURRICULUM ENRICHMENT

1.3.2 : Percentage of students undertaking project work , field work And internship

1.3 HIGHLIGHTED CURRICULUM



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BFT (BACHELOR OF FASHION TECHNOLOGY)

Experimental learning highlighted in page number

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MAHATMA GANDHI UNIVERSITY

PRIYADARSHINI HILLS, KOTTAYAM – 686 560



Scheme & Syllabi

For

BACHELOR OF FASHION TECHNOLOGY

PROGRAMME

2017

MAHATMA GANDHI UNIVERSITY KOTTAYAM
PROGRAMME IN BACHELOR OF FASHION TECHNOLOGY
UNDER
COURSE-CREDIT-SEMESTER SYSTEM & GRADING
(2017 admissions onwards)

AIMS AND OBJECTIVES OF THE PROGRAMME

Aim:

BFT is a six semester full-time programme, which employs the best methods to equip the students with the tools and techniques balanced with theory in the modern fashion/textiles, which has today taken the shape of fashion industry.

India, which has always been a centre for the traditional textile and garment trade, has in the past decade become a centre of innovation in garment and fashion design. As one of the major players in the global apparel market, the need for professionals in the field of fashion is increasing tremendously in India.

This programme equips students to pursue a wide range of career prospects as designers in apparel manufacturing, merchandising, marketing management, quality assurance, production planning & control and product engineering. The course also tunes student's entrepreneurial skills to set up their own manufacturing units and export start-ups.

Objectives:

- To develop students' aesthetic, intellectual and technological abilities through programs that integrates theory and practice.
- To offer students a rigorous and innovative curriculum taught by faculty with outstanding academic and industry experience.
- To promote students' growth and self-development through internships, guest lectures, industry-sponsored projects, and opportunities for experiential learning.

Eligibility:

- i) A pass in plus two or equivalent examinations recognized by the university, irrespective of the streams/subjects.

Duration of the Course:

The BFT shall be a six semester full time programme extending to three academic years consisting of 90 working days of instruction through each semester.

There shall be two Semesters in an academic year, the 'ODD' semester commences in June and on completion, the 'EVEN' Semester commences after a semester-break of three days with two months' vacation during April and May.

The student may be permitted to complete the Programme, on valid reasons, within a period of 12 continuous semesters from the date of commencement of the first semester of the programme.

Programme:

Bachelor of Fashion Technology programme- is grouped under the Model III-New Generation Courses.

Scheme and Syllabus:

The Bachelor of Fashion Technology programme shall include (a) Common Course, (b) Core Courses (c) Complementary courses, (d) Open course (e) Project and (f) Field work. There shall be one choice based course; in the sixth semester with a choice of one out of three elective courses.

Courses:

The programme gives ample weightage to English as a communication medium. Students must develop the basic skills in English through **Common Courses** (2 courses) in the first and second semester. The **Core Course** includes **Fashion Design & Technology** (24 courses), two **Complementary Courses** (i) **Textiles** (4 courses) (ii) **Apparel Merchandising** (4 Courses), **Open Course** (1 out of 3 courses) and **Choice based Course** (1 out of 3 courses). The programme gives impetus to practical training throughout the semesters. The students get a better understanding on the related topics through the complementary courses of the entire semesters. They are required to do a fieldwork in the form of **Craft Documentation** during **the vacation after II semester**.

The programme lays greater emphasis on interaction with the relevant industry in the form of an **Internship (Project)** after the **IV semester**.

COURSE SUMMARY

COMMON COURSE

1. English I
2. English II

CORE COURSE: FASHION DESIGN & TECHNOLOGY

1. FT1CRP01 - Introduction to Fashion Art [P]
2. FT1CRP02 - Sewing Fundamentals [P]
3. FT1CRP03 - Surface Ornamentation [P]
4. FT2CRP06 - Elements of Fashion and Advanced Drawing [P]
5. FT2CRP07 - Garment Construction [P]
6. FT2CRP08 - Fundamentals of Flat Pattern Making [P]
7. FT2CRT09 - Elements of Design and its Application [T]
8. FT3CRP11 - Fashion Stylization and Designing [P]
9. FT3CRP12 - Advanced Garment Construction [P]
10. FT3CRP13 - Pattern Manipulation [P]
11. FT3CRT14 - World Costume [T]
12. FT3CRP15 - World Art Appreciation [P]
13. FT3CRP16 - Draping [P]
14. FT4CRP18 - Advanced Fashion Illustration [P]
15. FT4CRP19 - Garment Assembling [P]
16. FT4CRP20 - Advanced Pattern Making and Grading [P]
17. FT4CRP21 - Computer Graphics [P]
18. FT5CRP24 - Theatre Costume Designing [P]
19. FT5CRP25 - Kids Wear and Men's Wear [P]
20. FT5CRP26 - Sustainable Textiles and Environment [T]
21. FT6CRP30 - Final Collection [P]***
22. FT6CRP31 - Accessory Designing [P]
23. FT6CRP32 - Portfolio Making [P]****
24. FT6CRP33 - Craft Documentation*

COMPLEMENTARY-I: TEXTILES

1. FT1CMT04 - Textile Science [T]
2. FT2CMT10 - Traditional Indian Textiles & Costumes [T]
3. FT5CMP27 - Textile Design [P]
4. FT5CMP28 - Computer Aided Textile Designing [P]

COMPLEMENTARY-II: APPAREL MERCHANDISING

1. FT1CMT05 - Introduction to Fashion Business[T]
2. FT3CMT17 - Fashion Marketing [T]
3. FT4CMT22 - Fundamentals of Apparel Production[T]
4. FT4CMT23 - Export Merchandising[T]

PROJECT

- FT6PRP35 - Internship [Project]**

OPEN COURSES

1. FT5OPT01 - Fashion Psychology and Grooming [T]
2. FT5OPT02 - Indian Embellishment Techniques[T]
3. FT5OPT03 - Fashion Fundamentals and Concepts[T]

CHOICE BASED COURSES

1. FT6CBP01 - Computer Aided Pattern Making And Grading[P]
2. FT6CBP02 - Apparel Machinery and Quality Control[T]
3. FT6CBP03 - Entrepreneurship Development & Management[T]

BACHELOR OF FASHION TECHNOLOGY PROGRAMME

SCHEME OF COURSES

Model III Fashion Technology Courses and its number are as the following:

Type of programme	Course	Number
Model III	Common	2
	Core + Complementary	33
	Open Course	1
	Internship Project	1

Courses with credits:

The programme of Fashion Technology consist of common courses with 8 credits, core plus complementary courses with 104 credits, choice based courses with 3 credits and open course with 3 credits. Since the students are engaged in this significant work which leads to the culmination of the whole programme, the Final Collection carries 6 credits as compared to 4 or 3 credits given to other courses in

the entire programme.

Model III

a	Programme Duration	6 Semesters
b	Total Credits required for successful completion of the Programme	120
c	Credits required from Common Course I	8
d	Credits required from Core + Complementary + Vocational Courses including Project	109
e	Open Course	3
f	Minimum attendance required	75%

Type of programme	Course	Credits	Total credits
Model III	Common	08	120
	Core + complementary	107	
	Open Course	03	
	Internship Project	02	

BFT COURSES WITH HOURS PER WEEK AND DISTRIBUTION OF CREDITS

Sl. No	Title of the Course	Hr/week	Credits
1	English-I	5	4
2	FT1CRP01 - Introduction to Fashion Art [P]	4	3
3	FT1CRP02 - Sewing Fundamentals [P]	4	3
4	FT1CRP03 - Surface Ornamentation [P]	4	3
5	FT1CMT04 - Textile Science [T]	4	4
6	FT1CMT05 - Introduction to Fashion Business [T]	4	4
7	English-II	5	4
8	FT2CRP06 - Elements of Fashion and Advanced Drawing [P]	4	3
9	FT2CRP07 - Garment Construction [P]	4	3
10	FT2CRP08 - Fundamentals of Flat Pattern Making [P]	4	3
11	FT2CRT09 - Elements of Design and its Application [T]	4	4
12	FT2CMT10 - Traditional Indian Textiles and Costumes[T]	4	4
13	FT3CRP11 - Fashion Stylization and Designing[P]	4	3
14	FT3CRP12 - Advanced Garment Construction [P]	4	3
15	FT3CRP13 - Pattern Manipulation [P]	4	3
16	FT3CRT14 - World Costume[T]	3	3
17	FT3CRP15 - World Art Appreciation [P]	2	1
18	FT3CRP16 - Draping [P]	4	3
19	FT3CMT17 - Fashion Marketing [T]	4	4
20	FT4CRP18 - Advanced Fashion Illustration [P]	4	3
21	FT4CRP19 - Garment Assembling [P]	4	3
22	FT4CRP20 - Advanced Pattern Making and Grading [P]	5	3
23	FT4CRP21 - Computer Graphics [P]	4	3
24	FT4CMT22 - Fundamentals of Apparel Production [T]	4	4
25	FT4CMT23 - Export Merchandising [T]	4	4
26	FT5CRP24 - Theatre Costume Designing [P]	4	3
27	FT5CRP25 - Kids Wear and Men's Wear [P]	5	3
28	FT5CRT26 - Sustainable Textiles and Environment [T]	4	4
29	FT5CMP27 - Textile Design [P]	4	3
30	FT5CMP28 - Computer Aided Textile Designing [P]	4	3
31	Open Course [T]	4	3
32	FT6CRP30 - Final Collection [P]***	13	6
33	FT6CRP31 - Accessory Designing [P]	4	2
34	FT6CRP32 - Portfolio Making [P]****	4	3
35	FT6CRP33 - Craft Documentation*	0	3
36	Choice Based Course [T] or [P]	4	3
37	FT6PRP35 - Internship (Project)**	0	2
Total		150	120

COURSE DETAILS

I. Zero Hour Courses

Zero hour courses are courses done during vacation and which therefore do not take up semester hours. There are three such courses in the programme (**Craft Documentation*** (after II semester) and **Knit wear Module and Internship** [project]** (after IV semester) A separate statement of grades will be issued on these courses along with the VI semester score card.

- **Craft Documentation***

All students shall do a field trip for a week during vacation time after second semester. The students are sent in groups of minimum five to a specific region and are required to study and document the traditional craft of that region. Each group has to derive and construct a collection of minimum 5 garments (one garment per student) inspired from the craft in contemporary styling. The illustrative report, a power point about the craft studied and the collection of garments have to be presented before an internal jury during the III semester. This course will have only internal assessment based on viva-voce examination and the marks awarded will be submitted to the University along with the internal marks of the courses of the VI Semester.

- **Internship Project****

After the completion of the IV semester, the students are sent on a 1 week Knit wear module and a 30 days industry training programme (**Project**) for gaining substantial hands on experience in the apparel industry. The internship can be done individually or as a group of maximum 5 students. However the Viva on these is to be conducted individually. The report of the knit wear module and the project report of internship in duplicate should be submitted to the department and are to be produced before the external examiners during the oral examination in the VI semester.

II. Final Collection***

Each student will conceptualize and develop a collection of at least five ensembles in the VI semester, which demonstrate the student's creativity and understanding of the market. The collection may be displayed as a fashion show finale. A viva based on the collection of garments will be conducted at the end of the VI semester by an external examiner.

IV. Portfolio Making****

The students have to document all their best presentable work done throughout the entire semesters and those that portray the student's area of interest. The portfolio can be an effective means of communicating the capacities and capabilities of the students to anyone who seeks their skill and talent. A viva based on their presentation will be conducted at the end of the VI semester by an external examiner.

MARK DISTRIBUTION FOR EXTERNAL AND INTERNAL VALUATION

The external theory examination of all semesters shall be conducted by the University at the end of each semester. Internal evaluation is to be done by continuous assessments on the following components. For all (theory and practical) total marks of external examination is **80** and total marks of internal evaluation is **20**.

Marks distribution for external and internal assessments and the components for internal evaluation with their marks are shown below.

Craft Documentation*

For craft documentation there is no external evaluation. The break up for internal evaluation of craft documentation is as follows.

Components	Marks
Depth of Research	25
Garment Construction	40
Design Boards & PPT	20
Presentation	15
Total	100

Internship Project**

- a) Marks of External Examination : 80**
- b) Marks of Internal Evaluation : 20**

The break up for external evaluation of internship project is as follows.

Components of Project- External Evaluation	Marks
Internship Report	50
Viva-Voce	30
Total	80

The break up for internal evaluation of internship project is as follows

Components Internal Evaluation of project	Marks
Punctuality	5
Experimentation/Data collection	5
Knowledge	5
Report	5
Total	20

(All the four components of the internal assessment are mandatory)

Final Collection***

The break up for external evaluation of final collection is as follows.

Component	Marks
Theme	10
Interpretation	20
Choice of fabric	10
Garment Construction	30
Presentation	10
Total	80

The break up for internal evaluation of final collection is as follows.

Component	Marks
Attendance	5
Designing	5
Pattern Making	5
Garment Construction	5
Total	20

Accessory Designing

The break up for external evaluation of accessory designing is as follows.

Component	Marks
Product and Presentation	10
Record	20
Viva	10
Total	80

The break up for internal evaluation of accessory designing is as follows.

Component	Marks
Attendance	5
Designs	5
Products	5
Term Submission	5
Total	20

Portfolio Making****

The break up for external evaluation of portfolio making is as follows.

Component	Marks
Layout and Presentation	20
Design Assignments	40
Creativity	20
Total	80

The break up for internal evaluation of portfolio making is as follows.

Component	Marks
Attendance	5
Punctuality	5
Design Assignment	10
Total	20

SEMESTER WISE SYLLABI

SEMESTER I

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT1CRP01- INTRODUCTION TO FASHION ART [P]

Credits-3 (Practical 4)

No. of Contact hours-72

Objectives

To introduce students to

- Basic sketching techniques.
- Aspects of human anatomy & importance of fashion illustration.
- Drawing a fashion figure or a Croqui with proportion & body movements.
Various poses required for fashion illustration.
- Various mediums for sketching and rendering life forms.

Contents

Module 1

10 Hrs

- Different types of Lines-vertical, horizontal, diagonal, wavy, zigzag, dotted, dashed, spiral etc.
- Free hand drawing techniques & related exercises.
- Free hand practice of brush & pencil.

Module II

14 Hrs

- Two & three dimensional forms, its composition, perspective & Object shading.
- Still life drawings
- Introduction to poster paints, watercolors, colour pencils, dry chalks & rotoring ink or Indian ink.

Module III

12 Hrs

- Basic 8 head Croqui.
- Basic 10 head Croqui.
- $\frac{3}{4}$ pose, side pose & back poses.

Module IV

18 Hrs

- Face block – Front, Side and 3/4 view
- Fashion face-eyes, ears, nose, mouth & head.

Module V

18 Hrs

- Croqui analysis-analyzing figures from fashion magazines & life.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- John H Vanderpoel, (1958), *Human Figure*, New York, Dover Publications Inc.
- George Brant Bridgeman,(1920), *Book of Hundred Hands*, New York, Dover Publications
- George Brant Bridgeman, (1972), *Human Machine-The Anatomical Structure & Mechanism of the Human Body*, New York, Dover Publications.
- Bina Abling, (2001), *Fashion Rendering with Color*, United States, Prentice Hall.
- Julian Seaman, (1996), *Fashion Illustration Basic Techniques*, London Batsford.
- Colin Barnes, (1988), *Fashion Illustration*, New York, Little Brown and Co.
- Erte, (1982), *Erte's Fashion Designs: 218 Illustrations from 'Harper's Bazar' 1918-1932*, New York, Dover Publications Inc.
- Julian Seaman, (2003), *Foundation in Fashion Design and Illustration*, London, Batsford.
- Janet Boyes, (1998) *Essential Fashion Design*, London, Batsford.

SEMESTER I

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT1CRP02- SEWING FUNDAMENTALS [P]

Credits-3 (Practical 4)

No. of Contact hours-72

Objectives:

- To introduce students to various Industrial Machineries.
- To acquire basic skills of operating industrial sewing machines. To understand basic sewing techniques.

Contents

Module I

23 Hrs

- Introduction to Industrial Sewing machine – machine parts, terminology, safety rules, care and maintenance.
- Survey on different sewing machines.
- Industrial Machine practice – stitching on executive bond paper – parallel lines, broken lines, cornered lines and waves.
- Pressing Equipment – application, machine parts and terminology, safety rules, care and maintenance.
- Over lock Machine –its application.

Module II

20 Hrs

- Study of different types of needles and threads. (Can be given as self-study assignment to students).
- Threading the machine, setting the needle, adjusting stitch length regulator, thread tension, adjusting knee lift, presser foot and functions of all machine parts.
- Cutting muslin rectangles (10” X 12” size), Stitching practice on muslin - Straight lines, broken lines, cornered lines and waves.

Module III

5 Hrs

- Basic hand stitches and their classifications :- (i) Temporary stitches: basting-even, uneven and diagonal. (ii) Permanent stitches: hemming, slip stitching, blanket, and fagoting.

Module IV

11 Hrs

- Different types of seams: super imposed, lapped, bound, self-enclosed-French seam, mock French, flat felled, self-bound seam and decorative seams.
- Seam finishes- pinked seam, hand overcast, over locked, bias bound, and edge stitch.

Module V

13 Hrs

- Hem Finishes: Hand hemming- visible and invisible hemming, decorative hem-piped, faced hem and ruffled hem.
- Introducing fullness: - Tucks -blind, spaced and pin tucks, Pleats - knife, box, inverted, pleat with separate underlay, gathering, shirring, Ruffles -straight and circular ruffle, and godets.

The Record should be submitted at the time of External Evaluation.

Suggested readings:

- Reader's Digest, (1997), *Complete Guide to Sewing and Knitting*, New York, Reader's Digest Association.
- Claire Shaeffer, (1997), *Sewing for the Apparel Industry*, United States, Prentice Hall.
- John Mcloughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.
- Nurie Relis and Gayle Strauss, (1996), *Sewing for Fashion Design*, United States, Prentice Hall Publications

SEMESTER I

CORE COURSE - FASHION DESIGN AND TECHNOLOGY

FT1CRP03 - SURFACE ORNAMENTATION [P]

Credits-3(Practical 4)

No. of Contact hours-72

Objectives

- To teach the basic hand embroidery techniques, surface designing and other ornamentation techniques.
- To introduce them to various traditional embroidery techniques of India.

Contents

Module I

4 Hrs

- Embroidery-Embroidery tools and techniques, embroidery threads and their classification, selection of threads, needle and cloth, tracing techniques, ironing and finishing of embroidered articles.

Module II

20 Hrs

- Basic Hand Embroidery - Basic and four variations of running stitch, back stitch, stem stitch, chain stitch, lazy daisy stitch, buttonhole stitch, feather stitch, herringbone stitch, knot stitch, satin stitch and cross stitch.

Module III

20 Hrs

- Traditional Embroidery and its origin, application & colours - Kantha, Chikan, Kasuti, Zardosi (Four variations), Kutch and Mirror work (Two variations), Applique and Reverse Applique.

Module IV

18 Hrs

- Quilting (two variations), Smocking (Chinese and Honey comb), Fabric Painting (Hand, Stencil-dabbing and spraying), Applique – Hand and Iron.

Module V

10 Hrs

- Batik – splash & t-janting and crackled, Tie and Dye – lehariya, bandhini, sunray and marbling,
- Block Printing – vegetable block and wooden block

Term Submission:

- Embroidery folder which contains work of entire semester.
- Submission of one or two articles (Yoke, Dupatta, Table Cloth, Bed Cover, Pillow cover or Cushion cover, Handkerchief, Kurta, Short top or Saree) using embroidery or other surface embellishment technique.

The Record and the article should be submitted at the time of External Evaluation.

Suggested readings:

- Richard M Proctor and Jennifer F Lew, (1995), *Surface Design for Fabric*, Washington, University of Washington Press.
- Lanto Synge, (2010), *Art of Embroidery: History of Style and Technique*, Woodbridge, UK, Antique Collectors Club.
- Helen M, David & Charles, (1998), *The Timeless Art of Embroidery*, New York, Sterling Pub Co Inc.
- Readers Digest,(1993), *Complete guide to Sewing*, New York, Reader's Digest Association.
- Barbara Snook, (1972), *Creative Art of Embroidery*, London, Little Hampton Book Services Ltd Publications.
- Shailaja D. Naik, (1997), *Traditional Embroideries of India*, Mumbai, APH Publishings.

SEMESTER I

COMPLEMENTARY COURSE I - TEXTILES

FT1CMT04- TEXTILE SCIENCE [T]

Credits-4(Theory 4)

No. of Contact hours-72

Objectives

- To gain knowledge about textile fibers and their uses.
- To develop an understanding about various kinds of fabrics, their structure and the utility.
- To impart knowledge about Textile dyeing and printing.
- To develop skill in understanding textiles available in the market.

Contents

Module I

15 Hrs

- Introduction to Textiles and classification of fibers according to source – Natural and Man-made.
- Identification and properties of textile fibers: Cotton, Linen, Jute, Silk, Wool, Rayon (regenerated), Acetate, Polyester, Nylon, Acrylic and Spandex.

Module II

15 Hrs

- Process of yarn formation: Hand spinning and Mechanical Spinning (Ring spinning and open end spinning).
- Yarn classification, characteristics, properties and uses – Blends & Mixtures (fabric) and Simple & Novelty yarns.

Module III

18 Hrs

Method of fabric construction:

- **Weaving** - Basic weaves and their variations - Plain, Twill and Satin. Fancy weaves- Pile, Dobby , Jacquard, Extra warp and weft figure, Leno, Crepe and Double cloth.
- **Knitting** – Terminologies, types of knits, basic stitches and types of needles.
- Braiding, Lace, Felts and Non-wovens.

Module IV

12 Hrs

- Finishes- definition, importance, classification according to durability and function.
- Preparatory Finishes: Sizing, Singeing, De-sizing, Scouring, Bleaching, Mercerization, Calendaring, Tendering.
- Aesthetic Finishes: Brushing, Crabbing, Fulling, Heat Setting, Shearing, Napping and Emerizing.
- Functional Finishes: Water repellent and Water proof finishes, Antistatic finish, Anti-slip finish, Flame retardant finishes, Crease resistant finishes, Durable press and Shrink resistant finishes

Module V

12 Hrs

- Dyeing- Stages of dyeing- fiber stage, yarn dyeing, fabric, cross, union dyeing and product stage. Method of dyeing- batch dyeing, reel dyeing, jig dyeing and package dyeing.
- Printing- Direct roller printing, block printing, duplex printing, discharge printing, screen printing- flat and rotary, resist, batik and tie-dye.

Related Experience

- Study of fabric count using a pick glass.
- Identification of fibers- cotton, wool, silk, rayon, polyester, acrylic and blends through visual, microscopic burning and chemical.
- Swatch folder- Collection of samples for fibers, yarns, weaves and finishes.

Suggested Readings:

- Bernard P. Corbman, (1975), *Textiles Fiber To Fabric*, New York, McGraw-Hill Publications.
- Harriet Hargrave, (1997), *From Fiber To Fabrics*, United States, C & T Publishing.
- Judith Jerde, (1992), *Encyclopedia of Textiles*, New York, Facts on File Inc.
- Hollen N., (1990), *Textiles*, USA, Macmillan publishing company.

SEMESTER- 1

COMPLEMENTARY COURSE II-APPAREL MERCHANDISING

FT1CMT05 - INTRODUCTION TO FASHION BUSINESS [T]

Credits-4 (Theory 4)

No. of Contact hours-72

Objectives

- To introduce students to growth of fashion industry.
- To familiarize students with all major international and Indian Fashion designers and their styles of work.
- To create awareness amongst students about the domestic and export garment industries and the various career opportunities and diversification possibilities in the field of fashion.

Contents

Module I

12 Hrs

- Purpose of clothing-protection, communication and decoration.
- Fashion Terminologies-accessories, advertising, alta moda, apparel, balance, boutique, classic, collection, CAD, CAM, CIM, consumer, couture, custom made, designer, fad, fashion, fashion retailing, grading, market, silhouette and texture.
- Fashion Cycles.
- Adoption Theories of fashion.

Module II

22 Hrs

- Growth of Couture- Evolution of the international fashion industry, designers of the 20th century, factors leading to mass production of clothing and development of Ready to wear industry.
- Factors affecting fashion – effects of social, cultural, political, artistic, economic, global and technological changes on fashion. Industrial revolution, growth of middle class, growth of leisure activities, women at work.
- World War I, great depression, Hollywood influence on fashion, World War II, ethnic fashion, physical fitness, globalization, recession etc.

- Indian & international trendsetting fashion designers (To be covered as presentations by individual students).

Module III

18 Hrs

- Fashion Forecasting.
- Seasons of Fashion.
- Fashion services and resources.
- Design Sources.
- International Fashion centers.
- Fashion Markets.

Module IV

10 Hrs

- Fashion Advertising - Kinds & Medias of Advertising.
- Special events-fashion shows, exhibitions, trade fairs.
- World Trade Organizations
- Eco Standards
- Consumer buying behavior.

Module V

10 Hrs

- Clothing categories in Men's wear, Women's wear & Kids wear.
- Fashion Accessories-footwear, handbags, belts, gloves, hats, scarves, hosiery, jewelry, watches (To be covered as presentations by student groups).

Suggested Readings

- Gini Stephens Frings, (2007), *Fashion From Concept To Consumer*, United States, Prentice Hall Publishers.
- Kitty G. Dickerson, (2003), *Inside the Fashion Business*, Singapore, Pearson Education.
- Helen Gowork, (2007), *Fashion Buying*, United States, Wiley – Blackwel Publishers.
- MeherCastelino, (1994),*Fashion Kaleidoscope*, India, BPI India Pvt. Ltd.
- Harold Carr and John Pomerot, (1992), *Fashion Design and Product Development*, United States, Blackwell Science Inc.
- Suzanne Marshall, Hazel Jackson and M. Sue Stanley, (2011), *Individuality in Clothing Selection and Personal Appearance*, Unite

SEMESTER II

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT2CRP06 -ELEMENTS OF FASHION AND ADVANCED DRAWING [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- To strengthen the Croqui & drawing skills.
- To familiarize students with various fashion poses required for fashion illustration.
- Give inputs in clothing details & terminology as a universal vocabulary for communication about garments.

Contents

Module I 25 Hrs

- Different fashion poses.
- Fashion faces

Module II 15 Hrs

- Various Hair styles & foot wear.

Module III 10 Hrs

- Principles of draping garments on Croquis

Module IV 12 Hrs

- Lingerie drawings on fashion figures.

Module V 10 Hrs

- Introduction to fashion details-various silhouettes.
- Construction Details: Necklines, collars, sleeves, waists& hemlines, tops, skirts, pants, coats, dresses and lingerie/lounge wears.

The Record should be submitted at the time of External Evaluation.

Suggested Readings

- Elizabetta Drudi & TizianaPaci, (2010), *Figure Drawing For Fashion Design*, Netherlands, Pepin Press.
- Kathryn McKelvey, (2006), *Fashion Source Book*, United States, Wiley – Blackwel Publishers.
- Patrick John Ireland, (2003), *Encyclopedia of fashion details*, London, Batsford Publishers.
- Alferd.D. D’ortenzio, (1997), *Fashion Sketching*, New York, Delmer Publishers.
- Bina Abling, (2008), *Fashion Sketch Book, 4th edition*, New York, Fairchild Publications Inc.

SEMESTER II

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT2CRP07- GARMENT CONSTRUCTION [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objective

- To teach students the construction methods of different neck lines, sleeves, collars, cuffs and finishes.

Contents

Module I 16 hrs

- **Neck lines:**-round and jewel, scoop, square and glass, ‘V’ shaped, straight and curved, scalloped , sweet heart, key hole, boat neck and asymmetrical.
- **Neck line finishes:**-shaped facing, corded or piped neck line, bias facing- single layer binding, double layer binding, banded neckline and placket bands.

Module II 18 hrs

- **Plackets:** Inseam placket, Hemmed placket, Continuous placket, Bound placket, Face placket, Kurtha placket, Zipper placket

Module III 18 hrs

- **Sleeves:**-sleeveless - with facing, set-in-sleeve, half sleeve, puff sleeve, flared sleeve, full sleeve, petal sleeve, leg-o-mutton sleeve, bishop sleeve, cap sleeve raglan sleeve and kimono sleeve.

Module IV 10 hrs

- **Sleeve finishes:**-self hem, faced hem, double binding and casing.

Module V 10 hrs

- **Cuff application;**-basic shirt cuff, French cuff and continuous cuff.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Reader's Digest, (1997), *Complete Guide to Sewing and Knitting*, New York, Reader's Digest Association.
- Claire Shaeffer, (1997), *Sewing for the Apparel Industry*, United States, Prentice Hall.
- John Mcloughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.
- NurieRelis and Gayle Strauss, (1996), *Sewing for Fashion Design*, United States, Prentice Hall Publications.

SEMESTER II

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT2CRP08- FUNDAMENTALS OF FLAT PATTERN MAKING [P]

Credits-3 (Practical- 4)

No. of contact hours-72

Objectives

- To familiarize students with tools and methodologies of pattern making.
- To understand the language of pattern making and develop the ability to create designs through the flat pattern method.
- To enable the students to draft basic bodice block, skirt block and sleeve block.

Contents

Module I

12 Hrs

- Introduction to pattern making
- Methods of Pattern Making
- Principles of Pattern Making
- Tools, Workroom terms and Definitions.
- How to take body measurements.
- Dart – Definition, Rules of Dart

Module II

25 Hrs

- Draft basic bodice blocks- front and back.
- Charting of Dart Location.
- Dart Manipulation - Single and Double dart series.

Module III

25 Hrs

- Draft basic sleeve block
- Fitting sleeve into the armhole.
- Variations of the basic sleeve- set-in-sleeve, cap sleeve, puff sleeves &

variations, circular sleeve, petal sleeve, lantern sleeve, leg-o-mutton sleeve, cowl sleeve, shirt sleeve, bishop sleeve, kimono sleeve, raglan sleeve and sleeve cuffs.

Module IV

10 Hrs

- Draft basic skirt block – A-Line front and back.

The Record should be submitted at the time of External Evaluation.

Suggested Readings

- Helen Joseph & Armstrong, (1995), *Pattern Making For Fashion Design*, United States, Prentice Hall Publications.
- Vittorina Rolfo, Ernestine Kopp, Lee Gross & Beatrice Zelin, (1991), *Designing Apparel Through the Flat Pattern*, New York, Fairchild Books.
- Vittorina Rolfo, Ernestine Kopp, Lee Gross & Beatrice Zelin, (1975), *How to Draft Basic Patterns*, New York, Fairchild Books.
- John McLoughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.

SEMESTER II

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT2CRT09- ELEMENTS OF DESIGN AND ITS APPLICATION [T]

Credits-4 (Theory 4)

No. of contact hours-72

Objectives

- To familiarize students with the design elements and principles and its application in fashion designing.
- To induce an organized methodology in developing a successful collection / line of garments.

Contents

Module I

15 Hrs

- Types of Design-structural and decorative.
- Design elements-form, shape, space, line, color and texture.
- Principles of design-balance-formal, informal and radial, proportion, emphasis, rhythm and harmony.

Module II

20 Hrs

- Silhouettes – Definition and Types.
- Texture – Components, Selection and Combination

Module III

27 Hrs

- Colour theory- Prang color system & Munsell.
- Colour wheel- Primary, Secondary and Tertiary.
- Colour Dimensions-Hue, Value and Chroma.
- Colour harmony- Related & Contrasting Colour harmonies & its sub divisions.
- Application of Colour in clothing.
- Seasonal colours.

Module IV

10 Hrs

- Trimmings & Decorations.

Related Experiences

A creative Non textile Exhibition should be conducted in which the students are supposed to make a garment using the textures developed from the non-textile materials.(E.g. wire, paper, clay ,metal, glass etc.)

OR

A project based on exploration of textures & design development.

Suggested Readings:

- Suzanne Marshall, Hazel Jackson and M. Sue Stanley, (2011), *Individuality in Clothing Selection and Personal Appearance*, United States, Prentice Hall Publishers.
- Sumathy. G, (2002), *Elements Of Fashion And Apparel Design*, New Delhi, Oscar Publications.
- Harriet Tilden & McJimsey, (1973), *Art and Fashion in Clothing Selection*, New York, Lova State Press.

SEMESTER II

COMPLEMENTARY COURSE I –TEXTILES

FT2CMT10- TRADITIONAL INDIAN TEXTILES AND COSTUMES [T]

Credits-4 (Theory 4)

No. of contact hours-72

Objectives

- To study the different traditional textiles and their origin.
- To study costumes through the ages in relation to art, fabric, footwear, head dress & other accessories during different periods.

Traditional Indian Textiles

Module I 12 Hrs

- History of Indian textile production.

Module II 15 Hrs

- Textiles of Western region: Brocade weave, embroidery styles, Mochi, Kutch work, appliqué, bead work, block Printing, Screen Printing, Tie & Die-bandini and Laharia, Patola, Himrus, Amrus, Pithani, Pitabar.
- Textiles of Southern region: Pochampalli, Kalamkari, Banjara Embroidery Kancheepuram silk, ErezhaThorthu, Balaramapuram Sarees, Chendamangalam Sarees, Kuthampully Sarees, Kannur Handloom Home Furnishings, Kasuti, Mysore silk and Kunbi Sarees.

Module III 15 Hrs

- Textiles of Eastern region- Dacca sarees and its types, Balucharbuttedar, and Kantha and its types.
- Textiles of Northern region- Brocades of Varanasi & its types, phulkari & its types, Kashmiri Embroidery-carpet & shawl weaving, Kullu Shawls, Chamba Roomals, Chickan work & its types and Block Printing of Uttar Pradesh.

History of Indian Costumes

Module IV

15 Hrs

- Costumes and accessories during-Indus valley, Vedic period, Mauryan & Sunga Period and Satavahana period

Module-V

15 Hrs

- Costumes and accessories during- Kushan period, Guptha period, Mugal Period and British Period.

Suggested Readings:

- Buhler, Alfred, Eberhard Fischer & Marie – Louise Nabholz, (1980), *Historic Textiles of India . Vol.4: Indian Tie-Dyed Fabrics*, Ahmedabad, Calico Museum of Textiles.
- John Gillow & Nicholas Barnard, (1993), *Traditional Indian Textiles*, United Kingdom, Thames & Hudson.
- Sachidhanand Sahay, (1998), *Indian Costume, Coiffure And Ornament*, New Delhi, Munshiram Manoharlal Publishers.
- R. P. Mohapatra, (2003), *Fashion Styles of Ancient India*, New Delhi, B. R. Publishing Corporation.
- Pushpa Rani Mathur, (1994), *Costumes Of The Rulers Of Mewar*, New Delhi, Abhinav Publications.
- K P Sharma & S M Sethi, (1998), *Costumes and Ornaments of Chamba*, New Delhi, Indus Publishing Co.
- G. S. Ghurye, (1951), *Indian Costume*, Bombay, The Popular Book Depot.
- O. C. Handa, (1998), *Textiles, Costumes And Ornaments Of The Western Himalaya*, New Delhi, Indus Publishing Co.

SEMESTER III

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT3CRP11-FASHION STYLIZATION AND DESIGNING [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- Refining the student's illustration skills with special emphasis on developing a signature style of sketching by providing appropriate inputs through exposure to various artists' styles of illustration.
- Introduction to various medium for stylization of Croquis.
- To train students in color rendering in different media keeping fabric qualities.

Contents

Module I 18 Hrs

- Stylization of Croquis using different kinds of paper for different assignments

Module II 18 Hrs

- Stylization of Croquis using different kinds of media for different assignments.

(Each student is encouraged to explore his/her own individual style of illustration)

Module III 18 Hrs

- Introducing color rendering for the following: Solids, Prints, Checks, Stripes, Florals

Module IV 18 Hrs

- Color rendering for the following fabrics: Denim, Fabric with sheen-Satin, Napped fabrics-Velvet, Leather, Suede, Chiffon and Lace.

Suggested Readings:

- Colin Barnes, (1988), *The Complete Guide to Fashion Illustration*, United States, Northlight Books.
- Linda Tain, (1998), *Portfolio Presentation for Fashion Designers*, New York, Fairchild Publications.
- Julian Seaman, (2001), *Foundation in Fashion Design and Illustration*, London, Batsford Ltd.
- Bina Abling, (2001), *Fashion Rendering with Color*, United States, Prentice Hall Publications.

SEMESTER III
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT3CRP12-ADVANCED GARMENT CONSTRUCTION [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- To teach students various techniques and application of plackets, fasteners, zippers and pockets
- To enable students to learn the aspects of garment construction and to know the concept of garment making.

Contents

Module I **10 Hrs**

- **Collars:-**How to assemble a collar, Types of collars-flat collar, rolled collar, stand collar, tie collar, turtle neck collar, shirt collar, peter-pan collar, one piece convertible collar and shawl collar.

Module II **12 Hrs**

- **Fasteners:** Hooks and eyes-hand & metal, Press studs, Touch and close, Positioning buttons and button holes – Handmade & Bound button hole.

Module III **12 Hrs**

- **Fasteners:** Fly zipper, Centre standard zipper, Lapped zipper, Concealed zipper, .Open ended zipper.

Module IV **22 Hrs**

- Pocket making and application of outside pockets: Patch pocket -Unlined patch pocket, Curved patch pocket, Lined patch pocket, Patch pocket with separate flap, Patch pocket with self-flap, Patch pocket with pleats, pouched patch pocket.

Module V

16 Hrs

- Pocket making and application of inside pockets: Inseam pocket-Hip pocket, Slashed pockets, Welt pocket, Welt pocket with separate flap, Welt pocket with flap, Bound pocket, Bound pocket with flap.

Record submission: Submit the above articles for external exam as a record.

Suggested Readings:

- Reader's Digest, (1997), *Complete Guide to Sewing and Knitting*, New York, Reader's Digest Association.
- Claire Shaeffer, (1997), *Sewing for the Apparel Industry*, United States, Prentice Hall.
- John McLoughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.
- Claire Shaeffer, (2001), *High Fashion Sewing Secrets*, Rodale Books

SEMESTER III
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT3CRP13 -PATTERN MANIPULATION [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objective

- To teach the students more advanced methods of pattern making.

Contents

Module I **15 Hrs**

Darts

- Dart into – pleats, flares, gathers, tuck.
- Darts into style lines –classic and armhole princess line.
- Dart into fullness – blouson, yokes, pleat, tucks.

Module II **18 Hrs**

Skirts

- Skirt variations :- A- line flared skirt, Basic flared skirt, One dart skirt, added flare skirt, Flared skirt with gathered waist line, Gored skirt- 4 gore and 6 gore, Pegged skirt with pleats, Skirt with yoke. Circular skirts: Full circle skirt, Warp skirt with side seam.

Module III **16 Hrs**

Pleats

- Types of pleats – knife pleats, box pleats, inverted pleats.
- Types of Godets – Basic Godet, Circular Godet

Module IV **10 Hrs**

Collar

- Collar – Basic shirt collar. Flat collars: Peter pan, Sailor, Mandarin collar/ Chinese. Roll collar: Turtle neck.

Module V

13 Hrs

Pants

- Pants foundation: Culotte, Trouser. Design variations – pleated trouser, baggy pant, pant with flares, shorts- Bermudas.

Prepare a pattern for end semester garment.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Helen Joseph & Armstrong, (1995), *Pattern Making For Fashion Design*, United States, Prentice Hall Publications.
- Vittorina Rolfo, Ernestine Kopp, Lee Gross & Beatrice Zelin, (1991), *Designing Apparel Through the Flat Pattern*, New York, Fairchild Books.
- Vittorina Rolfo, Ernestine Kopp, Lee Gross & Beatrice Zelin, (1975), *How to Draft Basic Patterns*, New York, Fairchild Books.
- John Mcloughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.

SEMESTER III
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT3CRT14 – WORLD COSTUME [T]

Credits-3 (Theory- 3)

No. of contact hours-54

Objectives

- To help the students to trace the evolution of clothing, right from the obscure beginnings of the Paleolithic Age right to the modern age, with cross references in clothing between diverse civilizations in different centuries.
- To teach the students the creative use of research and inspirational library sources to co-ordinate the artwork in the development of current designs based on historic period.

Contents

Module I **10 Hrs**

- Beginning of costumes- Body decoration, Body ornamentation, Dress for Protection, Invention of the needle.
- Costumes and Accessories of Primitive and Aboriginal People,

Module II **10 Hrs**

- Costumes and Accessories of Mesopotamian, Sumerian, Assyrian, Babylonian Periods
- Ancient Egyptian Costumes and Accessories.

Module III **10 Hrs**

- Ancient Greek Costumes and Accessories.
- Ancient Roman Costumes and Accessories.

Module IV

10 Hrs

- Costumes and Accessories of Byzantium
- Costumes of Qin & Han and Tang Dynasties
- Traditional Garments of China - Pien-Fu/ Chang-Pao/ Shen-i/Qi-Robe.
- Traditional Garments and Accessories of Japan.

Module V

14 Hrs

- Medieval Costumes – Romanesque and Gothic.
- Renaissance - French Costumes - Farthingale.
- Twentieth Century (1950 to till present)

Project:

Students do an individual research study on any designer and a group study on each decade starting from 1930. This is presented on the last class. The objective is to familiarize the students with fashion in the 20th century with particular focus on designers and design houses, which influence global fashion today.

Suggested Readings:

- Doreen Yarwood, (1993), *Fashion In The Western World*, London, Batsford Ltd.
- Carolyn G. Bradley, (2001), *Western World Costume-An outline history*, New York, Dover Publications.
- Tom Tierney, (2003), *Historic Costume-From Ancient Times to Renaissance*, New York, Dover Publications.
- Wolfgang Brune & Max Tilke, (2004), *A Pictorial History of Costume from Ancient Times to the Nineteenth Century*, New York, Dover Publications.

SEMESTER III
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT3CRP15- WORLD ART APPRECIATION [P]

Credits-1 (Practical- 2)

No. of contact hours-36

Objectives

- To induce the students an appreciation of art through ages & its impact upon lifestyle & fashion.
- To create innovative paintings inspired by the characteristics of world art & application of art in fashion.

Contents

Module I

9 Hrs

Ancient World

- Pre Historic art-Paleolithic age
- Egyptian art
- Greece & Roman-Classical Art.

Module II

9 Hrs

Middle Ages

- Early Christian & Byzantine Art.
- Medieval European art-Gothic.
- Renaissance.

Module III

9 Hrs

Modern Art

- Neo- Classicism & Romanticism
- Realism
- Impressionism
- Post impressionism

- Pointillism
- Cubism
- Surrealism

Module IV

9 Hrs

- Pop art
- Op art
- Abstract art
- Fauvism & Expressionism.
- Contemporary art.

Select a painting or a photograph of any object & render the same object according to the attributes (Rendering style, colour palette, concept & characteristics)of the above world arts.

Exhibition of the innovative paintings should be conducted at the end of the semester.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- H.W. Janson& Anthony. F. Janson Abrams, (2010), *History of ArtVIII Edition*, New York, Pearson Publication.
- Gustav Klimt, (1972), *One Hundred Drawings*, United States, Dover Publications.
- Peter Murray, (1985), *Art of the Renaissance*, London, Thames & Hudson Publications..

SEMESTER III
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT3CRP16- DRAPING [P]

Credits-3 (Practical- 4)

No. of contact hours-72

Objectives

- To teach the basic principles of draping.
- To train the students eye to see proportion and design detail in relation to the human body.
- To interpret and analyze more complex drapes.

Contents

Module I

6 Hrs

- Introduction to draping and dress forms.
- Tools used for Draping.
- Principles and Techniques of Draping
- Preparation of fabrics.

Module II

16 Hrs

- Basic Bodice – Marking and Trueing
- Dart manipulation – Mid neck dart, French dart, Double French dart and any one variation (Conversion of darts into pleats/ tucks/ gathers).

Module III

16 Hrs

- Bodice variations- Surplice front, halter
- Classic Princess Bodice.

Module IV

16 Hrs

- Basic front cowl, Butterfly twist.
- Yokes and midriffs- bodices yoke, hip yoke, fitted midriff.

Module V

18Hrs

- Basic skirt and variations – flared skirt, peg skirt.
- Princess dresses – joining skirt to the bodice.
- Design and construct a final garment applying draping method.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Nurie Relis, Hilde Jaffe & Rose Mary Torre, (2012), *Draping For Fashion Design, V Edition*, United States, Pearson Prentice Hall Publications.
- Helen Joseph & Armstrong, (2013), *Draping for Apparel Design, III Edition*, India, Bloomsbury Publications India Ltd.
- Connie Ameden & Crawford, (2005), *The Art of Fashion Draping*, New York, Fairchild Publications

SEMESTER III
COMPLEMENTARY COURSE – APPAREL MERCHANDISING
FT3CMT17- FASHION MARKETING [T]

Credits-4 (Theory 4)

No. of contact hours-72

Objective

- To introduce students to aspects of Domestic Marketing & Retail Merchandising

Contents

Module I **16 Hrs**

- Retailing-Retail Strategies, Store based retailers, Retail organization Multiple unit stores, Types of ownership, Non store retailing

Module II **17 Hrs**

- Role of a fashion buyer, Fabric sourcing, Garment sourcing, Local sourcing, National sourcing & International sourcing. Range Planning

Module III **17 Hrs**

- Marketing- Functions of marketing, Marketing calendar, Marketing Mix- Product, Price ,Promotion & transportation, Strategy planning

Module IV **22 Hrs**

- Consumer Behavior, Costumer Profile Defining the consumer by: Sex, Age, Size, Season, Economic Status, Location and others
- Market research- Methods & data analysis
- Visual Merchandising-Store planning, Seasonal visual merchandising, Windows, Interior and exterior visual merchandising, Departments

Suggested Readings:

- Helen Goworek, (2007), *Fashion Buying*, United Kingdom, John Wiley and Sons Ltd.
- Jay Diamond & Gerald Pintel, (2013), *Retail Buying*, New York, Prentice Hall Publications.
- Valerie Steele, (2012), *Fashion Theory-The Journal of Dress, Body and Culture*, England, Berg Publishers.
- Nicola White & Ian Griffiths, (2000), *The Fashion Business-Theory, Practice, Image*, United Kingdom, Blooms bury Academic Publishers.

SEMESTER IV

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT4CRP18- ADVANCED FASHION ILLUSTRATION [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- To teach the students to explore the components that form the cohesiveness of a collection as well as elements that introduce individual creativity & diversity.
- To familiarize the students to design on full figure croquis to detailed specification drawings with swatches, trimmings & stitch details on the basis of research & innovative experiment on fabric & function for any specialized apparel category.
- To enable the students to work outward from a point of focus or inspiration to develop a complete collection.

Contents

Module I 15 Hrs

- Introduction to male figure
- Men's casual /formal wear designs.

Module II 15 Hrs

- Development of kid's figure,
- Kid's play wear/school uniform designs.

Module III 10 Hrs

- Introduction to flat sketches

Module IV

12 Hrs

- Women's wear designs (Formal, Casual & Ethnic with special emphasis on innovative surface ornamentation techniques.)

Module V

20 Hrs

- Using an inspiration to conceptualize & design a collection.
- Introduction to design development-Inspiration board, mood board, colour board and swatch board.
- Art plates-collection of Croqui /fashion plates

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Bina Abling, (2001), *Fashion Rendering with Color*, United States, Prentice Hall.
- Bina Abling, (2008), *Fashion Sketch Book, 4th edition*, New York, Fairchild Publications Inc.
- Kathryn Mckelvey & Janie Munslow, (2007), *Illustrating Fashion*, United States, Wiley-Blackwell Publishers.

SEMESTER IV
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT4CRP19 - GARMENT ASSEMBLING [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- To develop the skill of designing fashionable garments.
- To enables the student to execute complete garments.
- To teach various methods by which Indian garments are manufactured.

Contents

Module I	4 Hrs
<ul style="list-style-type: none">• An introduction to Layout marking, spreading, cutting the fabric and Finishing- trimming & ironing.	
Module II	8 Hrs
<ul style="list-style-type: none">• Assembling a Shirt	
Module III	8 Hrs
<ul style="list-style-type: none">• Assembling a Trouser	
Module IV	20 Hrs
<ul style="list-style-type: none">• Assembling a Jacket	
Module V	32 Hrs
<ul style="list-style-type: none">• Construction of Indian garments:• SalwarKurtha• KalidharKurtha• Choli• Churidhar.	

Term Garment –Design and construct a variation of any one garment mentioned except jacket as an assignment.

**The Record and the article should be submitted at the time of
External Evaluation.**

Suggested Readings:

- Reader’s Digest, (1997), *Complete Guide to Sewing and Knitting*, New York, Reader’s Digest Association.
- Claire Shaeffer, (1997), *Sewing for the Apparel Industry*, United States, Prentice Hall.
- John McLoughlin and Dorothy Fairclough, (2012), *Garment Technology for Fashion Designers*, United States, Wiley-Blackwell Publishers.
- NurieRelis and Gayle Strauss, (1996), *Sewing for Fashion Design*, United States, Prentice Hall Publication

SEMESTER IV

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT4CRP20- ADVANCED PATTERN MAKING AND GRADING [P]

Credits-3 (Practical 5)

No. of contact hours-90

Objectives

- To provide more advanced and complex concepts to the pattern-making discipline.
- To enable the students to produce marker patterns for any garment.
- To make student proficient at grading the pattern to different sizes using nested grading.
- To teach industrial methods of pattern grading.

Contents

Module- I 18 Hrs

Principle II - Added fullness - Types, methods of identifying added fullness

- Fullness along princess line, Fullness with yoke and neck band, Added fullness To a dart leg, Gathers on style dart, Added fullness design variation
- Contour guide pattern, Basic Torso Foundation.
- Dress categories: The three basic dress foundation, Princess-line foundation, A- line princess, Panel dress Foundation, Tent Foundation, and Oversized Dress.

Module- II 18 Hrs

- Hoods & Capes: A- line cape foundation, Flared cape foundation, Contoured Hood foundation, Loose hood foundation, The Classic Empire, Surplice or Wrap design, Off-shoulder designs, Halter.

Module-III 18 Hrs

- Cowls: Front cowl-High relaxed cowl, mid- depth cowl,

- Back cowl-High back cowl, mid back cowl

Prepare Pattern for end semester garment.

Section II-Grading

Module IV

16 Hrs

- History of Grading, sizing survey of the market (Anthropometrical Research), body analysis, grading terminology.
- Principles of Grading, Introduction to Nested & Track grade, Grading Applications, Basic Bodice Grading-Back & Front.

Module V

20 Hrs

- Grading the Basic sleeve, grading the Basic collar, Grading skirts & Trousers.

Note:The above mentioned patterns should be done for 2 sizes up to 1 size down. Accuracy of pattern and neatness of execution are of great importance.

The Record and the End semester garment should be submitted at the time of External Evaluation.

Suggested Readings:

- Patrick J. Taylor & Martin Shobhen, (2004), *Grading for the fashion Industry: Theory and Practice*, London, LCFS Fashion Media Publications.
- Gerry Cooklin,(1991), *Pattern Grading For Women's Clothes*, United States, Black well Publications.
- Gerry Cooklin,(1992), *Pattern Grading For Men's Clothes*, United States, Black well Publications.
- Gerry Cooklin,(1991), *Pattern Grading For Children's Clothes*, United States, Black well Publications.
- Helen Joseph & Armstrong, (1995), *Pattern Making For Fashion Design*, United States, Prentice Hall Publications.

SEMESTER IV
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT4CRP21- COMPUTER GRAPHICS [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objective

- To teach the students graphic software that can prove useful and essential for design needs.

Contents

Module I **16 Hrs**

Windows Office 2000

- **Microsoft Word**-Introduction to Microsoft Word, Familiarizing with
- Microsoft word-Typing, editing & designing the document.

Module II **18 Hrs**

- **Microsoft PowerPoint**-Working in Microsoft PowerPoint, Creating a presentation using Auto content wizard, Creating presentation using Design Template, Adding animation in slides

Module III **12 Hrs**

- **Learning the Internet**-Internet & its scope, Connecting to internet, Opening an Email account, sending & receiving Emails, Browsing the WWW

Module IV **26 Hrs**

- **Adobe Photoshop:** Getting started with Adobe Photoshop, working with adobe Photoshop to create Mood & Trend Presentation Boards, Creating textile patterns with Photoshop, Creating women's wear, kids wear & men's wear illustrations using pen tool, Creating invitation card, visiting cards and greeting cards.

The Record should be submitted at the time of External Evaluation

Suggested Readings:

- Adobe Systems, (2002), *Adobe Photoshop 7*, Adobe Press.
- Michelle Perkins, (2006), *Beginner's Guide to Adobe Photoshop*, United States, Amherst Media.
- Amy Philips, (2015), *Photoshop: Absolute Beginner's Guide*, Amazon Company, Create Space Independent Publishing Platform.

SEMESTER IV

COMPLEMENTARY COURSE – APPAREL ERCHANDISNG FT4CMT22- FUNDAMENTALS OF APPAREL PRODUCTION [T]

Credits-4 (Theory 4)

No. of contact hours-72

Objective

- To enable the students to familiarize with the functions and procedures within an apparel production unit.

Contents

Module I

10 Hrs

The Clothing Industry

- History, growth and structure of the clothing industry
- Product categories, different sectors of the industry
- Infrastructure and profile of a clothing factory.

Module II

14 Hrs

Pre-production sampling

- Importance of design in production
- Process involved in making a design sheet and development of a collection for each season.
- Development of fabric - Analysis of desk-loom and strike off.
- Sample analysis and approvals – Counter samples

Module III

14 Hrs

Production process

- Fabric inspection and cutting room – inspection of fabric and its control, various methods of spreading fabric, use and importance of marker, understanding of pattern and methods of laying patterns, yardage control in cutting room, types of cutting machine.

- Types of fusing, operation of fusing machine, quality aspects in fusing.
- Method of bundling and ticketing.

Module IV

10 Hrs

Sewing room

- Machines – types, uses and application
- Use of attachments
- Sewing – stitch type, uses ,type and application
- Thread types

Module V

24 Hrs

- Details of various types of trims used (interlining, shoulder pads, buttons, thread, labels, hang tags, size disc, hanger, hook and bar, zippers, lining, pocketing).
- Various techniques machine embroidery – satin stitch, chain stitch, eyelets, schiffli
- Finishing - Finishing room, Pressing equipment, Trimmings, packing, warehousing and shipping,
- Quality control – from fabric to warehousing stage.

Suggested Readings:

- Gerry Cooklin, (1991), *Introduction to Clothing Manufacture*, United States, Blackwell Science Publishers.
- Sharon Lee Tate, (2004), *Inside Fashion Design*, United States, Pearson/Prentice Hall.
- Ruth E Glock, (2005), *Apparel Manufacturing: Sewn product analysis*, New Delhi, Pearson Education India Publishers.
- Jay Diamond & Ellen Diamond, (1994), *Fashion Apparel and Accessories*, United States, Delmar Cengage Learning.
- Frederick H. Abernathy, John T. Dunlop, Janice H. Hammond, and David Weil, (1999), *Stitch in Time: Learn Retailing & the Transformation of Manufacturing - Lessons from the Apparel and Textile Industry USA*, Oxford University Press

SEMESTER IV

COMPLEMENTARY COURSE – APPAREL MERCHANDISING

FT4CMT23- EXPORT MERCHANDISING [T]

Credits-4 (Theory 4)

No. of contact hours-72

Objectives

- To develop an understanding of the definition and role of the merchandiser, and merchandising department in the apparel industry.
- Understanding the potential and limitations of textile industry from a fashion designers point of view.
- Developing the expertise for appropriate selection of fabrics, trims and other materials keeping the design/style/market in perspective.

Contents

Module I

12 Hrs

- Introduction to merchandising-definition and objectives of merchandising, role of a merchandiser, requirements of a merchandiser, responsibilities of a merchandiser
- communication skills-communication with buyer and coordination with different departments of a factory

Module II

15 Hrs

- Organizational structure& functions of various departments of a manufacturer Export house
- Buying house-store owned buying house & independent buying house.
- An overview of textile industry
- Different sectors of Indian textile industry-mill sector/organized sector, power loom sector/semi organized sector, hand loom sector/unorganized sector /co-operatives

Module III

15 Hrs

- Forecasting and significance in product planning, sampling, specification sheet, order sheet, line development, lead time, line presentation, minimum length and width
- Costing-techniques of costing-forward costing and backward costing, cost control, cost sheet.

Module IV

15 Hrs

- Organizing the showroom, showroom vocabulary
- Eco friendly textiles and significance of green labeling
- Quality control of garments
- Care labeling of garments and its types.

Module V

15 Hrs

- Export, trade procedures & documentation.
- Mode of shipments.
- Transport documents.
- Mode of payment-Letter of Credit & Bill of Exchange.
- Globalization and its impacts on Indian textile industry.

Suggested Readings:

- Brad Jackson, (2001), *Management Gurus and Management Fashions*, London, Routledge Publications.
- Jeanette Jarnow, (1968), *Inside the Fashion Business*, New York, Rizzoli International Publications.
- MichealEasey, Thompson, Sharon, Willans and John, (2008), *Fashion Marketing*, London, Blackwell Scientific Publications.
- Marian H. Jernigan, Easterling, & Cynthia R, (1990), *Fashion Merchandising & Marketing*, US, Prentice Hall Publications.
- Gary, Pekarsky, Ulasewicz & Connie, (1998), *Made in America : The Business of Apparel and Sewn Products Manufacturing*, US, Garmento Speak Publications.

SEMESTER V
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT5CRP24- THEATRE COSTUME DESIGNING [P]

Credits-3 (Practical 4)

No. of contact hours-72

Objectives

- To enable the students to take up costume for the movie, theater and advertisement industry.
- Prominent costume designers from the movie and theatre industry are invited for providing training for the students.

Contents

Module I **15 Hrs**

- Introduction to evolution of theatre costumes

Module II **15 Hrs**

- Sketch and colour: Costume (male & female), Mask, Footwear's, Accessories and Jewelry of the following theatres - Greek, Egypt, (One each)

Module III **16 Hrs**

- Sketch and colour: Costume (male & female), Mask, Footwear's, Accessories and Jewelry of the following theatres - Roman, Chinese, Japanese and 19th century (One each).

Module IV **10 Hrs**

- The difference in theatre costume from that of everyday costume/ Fashion costume.

Module V **16 Hrs**

- Study and preparation of any one variety of theatre costume with suitable accessories based on a movie or a book.

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Bronwyn Cosgrave, (2001), *The complete History of costume and Fashion: from Ancient Egypt to the Present Day*, New York, Checkmark Books.
- Regine Engelmeier, Peter.W. Engelmeier, *Fashion in Film*, New York, Prestel Publishings.
- Mary Kid, (1996), *Stage costume: Step - By Step: The complete guide to designing and making stage*, Betterway Books

SEMESTER V
CORE COURSE - FASHION DESIGN AND TECHNOLOGY
FT5CRP25 – KID’S WEAR AND MEN’S WEAR [P]

Credits-3 (Practical 5)

No: of contact hours – 90

Objectives

- To teach the students basic fundamentals of kid’s wear and men’s wear
- The students are required to make a collection of any 3 garments in kid’s and men’s wear and make a presentation of it. And construct one complete garment for each
- To enable students to do the proper layout of paper drafts on the fabric and to make maximum usage of fabric with minimum wastage.

Contents

Module I **36 Hrs**

- Pattern making for kid’s wear

Boys and girls block

- i. Flat body block
- ii. Flat shirt block
- iii. Flat sleeveless block
- iv. Flat over garment block
- v. Flat Trouser Block – one piece & two piece
- vi. Flat Pyjama block
- vii. Skirt block
- viii. Classic Bodice Block
- ix. Classic dress block
- x. Sleeveless Dress Block

Module II **30 Hrs**

- Pattern making for men’s wear.

Men's block

- i. Basic over garment block
- ii. Basic one piece sleeve block
- iii. Classic shirt block
- iv. Casual shirt block
- v. Trouser blocks-one piece, two piece
- vi. Pyjama block-jacket, trouser

Module III

12 Hrs

- Construction of one stylized kid's wear and men's wear according to recent trends.
- Pattern alteration (kid's wear and men's wear)

Module IV

12 Hrs

- Garment construction (kid's wear and men's wear)

Submit above articles during external evaluation along with the record.

Suggested Readings:

- E. Olive pounds, (2004), *Creative Sewing*, USA, Thomas Nelson and Sons Pvt. Ltd.
- Ernestine Kopp, Vittorina Rolfo & Beatrice Zelin, (1975), *How to Draft Basic Patterns*, USA, Fairchild Publications.
- Nancy Zieman, (2011), *Sewing A to Z: Your Source for Sewing and Quilting Tips and Techniques*, USA, Krause Publishers.
- Winifred Aldrich, (2009), *Metric Pattern Cutting for Children's Wear And Baby Wear, 4th Edition*, USA, John Wiley and Sons.
- Winifred Aldrich, (2011), *Metric Pattern Cutting for Men's Wear And Baby Wear, 4th Edition*, USA, John Wiley and Sons.

SEMESTER V

CORE COURSE - FASHION DESIGN AND TECHNOLOGY

FT5CRT26 – SUSTAINABLE TEXTILES AND ENVIRONMENT [P]

Credits – 4 (Theory-5)

No. of contact hours – 90

Objectives

- Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills. It helps to foster a new generation of informed consumers, workers, as well as policy or decision makers.
- Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future. It encourages character building, and develops positive attitudes and values.
- To develop the sense of awareness among the students about the environment and its various problems and to help the students in realizing the inter-relationship between man and environment and helps to protect the nature and natural resources.
- To help the students in acquiring the basic knowledge about environment and the social norms that provides unity with environmental characteristics and create positive attitude about the environment.

Contents

Module I

18 Hrs

Multidisciplinary nature of environmental studies

- Definition, scope and importance
- Need for public awareness.

Natural Resources:

- Renewable and non-renewable resources: Natural resources and associated problems.

Forest resources

- Use and over-exploitation, deforestation, case studies.
- Timber extraction, mining, dams and their effects on forest and tribal people.

Water resources

- Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.

Mineral resources

- Use and exploitation, environmental effects of extracting and using mineral resources, case studies.

Food resources

- World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.

Energy resources

- Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources, Case studies.

Land resources

- Land as a resource, land degradation, man induced landslides, soil erosion and desertification
- Role of individual in conservation of natural resources.
- Equitable use of resources for sustainable life styles.

Ecosystems

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids.
- Introduction, types, characteristic features, structure and function of the given ecosystem:- Forest ecosystem

Module II

26 Hrs

Biodiversity and its conservation

- Introduction
- Bio geographical classification of India
- Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.
- India as a mega-diversity nation
- Hot-spots of biodiversity
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts
- Endangered and endemic species of India

Environmental Pollution

- Definition
- Causes, effects and control measures of: -
 - a. Air pollution
 - b. Water pollution
 - c. Soil pollution
 - d. Marine pollution
 - e. Noise pollution
 - f. Thermal pollution
 - g. Nuclear hazards
- Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
- Role of an individual in prevention of pollution
- Pollution case studies
- Disaster management: floods, earthquake, cyclone and landslides

Social Issues and the Environment

- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people: its problems and concerns, Case studies
- Environmental ethics: Issues and possible solutions

- Climate change, global warming, acid rain, ozone layer depletion , nuclear accidents and holocaust, Case studies
- Consumerism and waste products
- Environment Protection Act
- Air (Prevention and Control of Pollution) Act
- Water (Prevention and control of Pollution) Act
- Wildlife Protection Act
- Forest Conservation Act
- Issues involved in enforcement of environmental legislation
- Public awareness

Module III

10 Hrs

- Pollution Control Strategies- Cleaner Production Techniques and processes, End of pipe treatments, sludge treatment & dispersal and air emission control

Module IV

10 Hrs

- Introduction to Ecofriendly textiles – Definition & features.
- Types – Organic Cotton, Bamboo, Hemp, Soy Silk, Tencel, Ramie
- Eco labeling – Definition & Importance
- Types of eco labels- Oekotex standards, CRI Greenlabel, Better Cotton Initiative, Blue Science standard, Ecomark India

Module V

8 Hrs

Human Rights

- An Introduction to Human Rights, Meaning, concept and development, Three Generations of Human Rights (Civil and Political Rights; Economic, Social and Cultural Rights).

Human Rights and United Nations

- Contributions, main human rights related organs - UNESCO, UNICEF, WHO, ILO, Declarations for women and children, Universal Declaration of Human Rights.
- Human Rights in India – Fundamental rights and Indian Constitution, Rights for children and women, Scheduled Castes, Scheduled Tribes, Other Backward Castes and Minorities

Environment and Human Rights

- Right to Clean Environment and Public Safety: Issues of Industrial Pollution, Prevention, Rehabilitation and Safety Aspect of New Technologies such as Chemical and Nuclear Technologies, Issues of Waste Disposal, Protection of Environment.
- **Conservation of natural resources and human rights:** Reports, Case studies and policy formulation. Conservation issues of western ghats- mention Gadgil committee report, Kasthuriengan report. Over exploitation of ground water resources, marine fisheries, sand mining etc.

Internal: Field study

- Visit to a local area to document environmental grassland/ hill /mountain
- Visit a local polluted site – Urban/Rural/Industrial/Agricultural Study of common plants, insects, birds etc
- Study of simple ecosystem-pond, river, hill slopes, etc

(Field work Equal to 5 lecture hours)

Suggested Readings:

- Bharucha Erach, Text Book of Environmental Studies for undergraduate Courses. University Press, IInd Edition 2013 (TB)
- Clark.R.S., Marine Pollution, Clarendon Press Oxford (Ref)
- Cunningham, W.P.Cooper, T.H.Gorhani, E & Hepworth, M.T.2001 Environmental Encyclopedia, Jaico Publ. House. Mumbai. 1196p .(Ref)
- Dc A.K.Environmental Chemistry, Wiley Eastern Ltd.(Ref)
- Down to Earth, Centre for Science and Environment (Ref)
- Heywood, V.H & Watson, R.T. 1995. Global Biodiversity Assessment, Cambridge University Press 1140pb (Ref)
- Jadhav.H & Bhosale.V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284p (Ref)
- Mekinney, M.L & Schock.R.M. 1996 Environmental Science Systems & Solutions. Web enhanced edition 639p (Ref)
- Miller T.G. Jr., Environmental Science, Wadsworth Publishing Co. (TB)

- Odum.E.P 1971. Fundamentals of Ecology. W.B. Saunders Co. USA 574p (Ref)
- Rao.M.N & Datta.A.K. 1987 Waste Water treatment Oxford & IBII Publication Co.Pvt.Ltd.345p (Ref)
- Rajagopalan. R, Environmental Studies from crisis and cure, Oxford University Press, Published: 2016 (TB)
- Sharma B.K., 2001. Environmental Chemistry. Geol Publ. House, Meerut (Ref)
- Townsend C., Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science (Ref)
- Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Stadards, Vol I and II, Enviro Media (Ref)
- Trivedi R. K. and P.K. Goel, Introduction to air pollution, Techno-Science Publication (Ref)
- Wanger K.D., 1998 Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p (Ref)
- (M) Magazine (R) Reference (TB) Textbook

Human Rights

- Amartya Sen, The Idea Justice, New Delhi: Penguin Books, 2009.
- Chatrath, K. J.S., (ed.), Education for Human Rights and Democracy (Shimla: Indian Institute of Advanced Studies, 1998)
- Law Relating to Human Rights, Asia Law House,2001.
- Shireesh Pal Singh, Human Rights Education in 21st Century, Discovery Publishing House Pvt.Ltd, New Delhi,
- S.K.Khanna, Children And The Human Rights, Common Wealth Publishers,1998. 2011.
- Sudhir Kapoor, Human Rights in 21st Century,Mangal Deep Publications, Jaipur,2001.
- United Nations Development Programme, Human Development Report 2004: Cultural Liberty in Today's Diverse World, New Delhi: Oxford University Press, 2004.

SEMESTER V

COMPLEMENTARY COURSE- TEXTILE SCIENCE

FT5CMP27 -- TEXTILE DESIGN (P)

Credits – 3 (Practical-4)

No. of contact hours – 72

Objectives

- To develop originality and creative design sensibilities.
- To teach the students to develop commercially successful textile products.

Contents

Module I	12 Hrs
<ul style="list-style-type: none">• Learning motifs, layouts and styles.	
Module II	16 Hrs
<ul style="list-style-type: none">• Exploring designs from nature, geometry, floral, marine, juvenile, paisley, contemporary, conversational, Provencal and botanical themes.	
Module III	16 Hrs
<ul style="list-style-type: none">• Techniques of repeats- straight, box, half drop, five star and random.• Color chart preparation.	
Module IV	16 Hrs
<ul style="list-style-type: none">• Theme based textile designing for- kids, women's and men's.	
Module V	12 Hrs
<ul style="list-style-type: none">• Color combinations and color ways.• Presentation of designs.	

Submit a record in the time of external evaluation.

Suggested Readings:

- Marypaul Yates, (1995), *Textiles: A Handbook for Designers*, New York, W.W. Norton and Company.
- Federick L. Chipkin,(2012), *Adobe Photoshop for textile design*, Origin Inc.
- Carol Joyce,(1997), *Textile Design: The Complete Guide to Printed Textile for Apparel & Home Furnishings*, New York, Watson-Guptill.
- Susan Meller&JoostElffers, (2002), *Textile Designers*, London, Thomas & Hudson Ltd.

SEMESTER V
COMPLEMENTARY COURSE- TEXTILE SCIENCE
FT5CMP28- COMPUTER AIDED TEXTILE DESIGNING (P)

Credits – 3 (Practical-4)

No. of contact hours – 72

Objective

- To teach the students the use of advanced computer aided textile designing and presentation software's.

Contents

Module I	12 Hrs
<ul style="list-style-type: none">• Motif design, color reduction and cleaning.	
Module II	16 Hrs
<ul style="list-style-type: none">• Manipulation of motifs to layouts and patterns.• Creating designs-traditional, floral, conversational and abstract.	
Module III	16 Hrs
<ul style="list-style-type: none">• Horizontal stripes, vertical stripes and plaids.• One-way, two-way, half-drop and tossed lay outs.	
Module IV	16 Hrs
<ul style="list-style-type: none">• Dobby designing – Stripes, Checks, twills, satins and diamond weaves.	
Module V	12 Hrs
<ul style="list-style-type: none">• Color combinations and color ways.• Presentation of designs.	

Submit a record in the time of external evaluation.

Suggested Readings:

- Renee Weiss Chase, (1996), *CAD for Fashion Design*, USA, Prentice Hall Publishers.
- Winifred Aldrich, (1994), *CAD in Clothing and Textiles 2nd Edition*, New Jersey ,Wiley – Blackwell Publishers.

SEMESTER V

OPEN COURSE-1 – FASHION DESIGN AND TECHNOLOGY

FT5OPT01- INDIAN EMBELLISHMENT TECHNIQUES [T]

Credits-3(Theory 4)

No. of contact hours-72

Objectives

- To study the different traditional textiles and their origin.
- To impart knowledge on various Indian fabric embellishment techniques

Contents

Module I 12 Hrs

- History of Indian textile production.
- Techniques of textile decoration-Brief study on traditional Woven fabrics, Dyed fabrics, Printed fabrics, Painted fabrics and Embroidered fabrics.

Module II 23 Hrs

- Traditional Indian embroidery – origin application & colors-Kantha, Chikan, Kutch & mirror work, Kasuti, Zardosi and Bead work

Module III 15 Hrs

- Printing & Paintind techniques: –origin and applica tions-Block printing, Kalamkari and Patachitra.

Module IV 22 Hrs

- Dyeing and weaving techniques:-Ikats, Patola, Bhandini, Laharia, Shibori, Brocade weave and Carpet weaving.

Submit a record in the time of external evaluation.

Suggested Readings:

- Indian Tie-Dyed Fabrics, Volume IV of Historic Textiles Of India. Merchant: Celunion Shop
- Indian Tie-Dyed Fabrics., Volume IV of Historic Textiles Of India., Merchant: Celunion Shop
- Traditional Indian Textiles., John Gillow/Nocholas Barnard, Thames & Hudson.

SEMESTER V

OPEN COURSE 2- FASHION DESIGN AND TECHNOLOGY

FT5OPT02 –FASHION PSYCHOLOGY AND GROOMING [T]

Credits-3(Theory 4)

No. of contact hours-72

Objectives

To enable students to:

- Understand the trends in Clothing behavior
- Gain an insight on the planning process involved in Clothing selection.

Contents

Module I

10 Hrs

Introduction to Clothing

- Understanding clothing, Purpose of clothing: - protection, modesty, attraction etc.

Module II

10 Hrs

- Clothing Values, Clothing Culture, men and women clothing and ornamentation, groups, Role and status of clothing.
- Clothing according to climatic conditions,-Arctic region- African, Asia and Arabs etc.

Module III

12 Hrs

- Modern Clothing-Youth style and fashion, Teddy boy, skins modes, hippies, punks, taste of youth and their life style.
- Ancient to modern clothing, inis maxis, unisex, fit women, glamorous woman. Casual and formal clothing. Fashion for all, ready to wear fashion, mass marketing of fashion.

Module IV

10 Hrs

- Selection of clothes:-Clothes for children, middle age, adults, Types of clothes according to human figure, Different materials for different clothes. Colors suitable for different garments. Kids to teenage clothing.

Module V

30 Hrs

- Planning for clothing needs, Clothes for school, Clothes for parties, Clothes for sports, Clothes for resting
- Wardrobe Planning
- Social and Psychological Aspects of Fashion

Suggested Readings:

- Black A.J. (1985) , ‘ A History of Fashion’ ,USA Or bits Publishing Ltd. Rouse E. (1989), ‘Understanding Fashion’,UK, Blackwell Science.
- Wilcox T. ‘The Dictionary of Costume’,UK,- Batsford Ltd.
- Ashelford J. ‘The Art of Dress Clothes and Society’, ISBN 1500-1914, Amazon- com.
- Beth Quinlan et al, ‘Clothing – An Introductory College Course’, Columbia Ed. By Benjamin R. Teaching College Columbia University.

SEMESTER V

OPEN COURSE-3 – FASHION DESIGN AND TECHNOLOGY

FT5OPT03- FASHION FUNDAMENTALS AND CONCEPTS [T]

Credits-3(Theory 4)

No .of contact hours-72

Objectives

To enable students to:

- Understand the fundamental design concepts, terminologies, elements and principle of design.
- Understand the various figure type and colour psychologies.

Contents

Module I

7 Hrs

- Introduction to fashion Designing- Its scope and importance, principles of fashion
- Fashion design terms-style, basic or classics, fad, fashion forecasting, trends, Chic, Costume made, Collection, Mannequins, Fashion shows and Fashion cycle.

Module II

Elements of design

16 Hrs

- Lines: straight lines and its types, curved lines and its types. shape, Colour: hue, intensity, value, Shape, silhouette: normal, bell, ruffle etc. and Texture.

Module III

Principles of design

12 Hrs

- Balance, Harmony, Scale or proportion, Rhythm and Emphasis.

Module VI

12 Hrs

- Explanation of the basic Croqui with its various parts and measurements (8 head and 10 head Croqui

Module VI

Study of Figures **12 Hrs**

- Figure types:- Average Figures-Slim, Rectangular, Triangular, Wedge and Hourglass, Deformed figures - tall and thin, short and stout, stooping figures, erect figures, corpulent figures

Module IV

Trimmings and Decorations **5 Hrs**

- Fabric bows, Tassels, Fringes, Ric-rac , Appliqués and Laces

Module V

Essentials in Dress Design **8 Hrs**

- Choice of material, choice of colour, design or structure and decoration.

Suggested Readings:

- Helan L.B., The Theory of fashion Design.
Neims I.B., Fashion and clothing technology. Carso B.,How to look and dress.
- Rouse E. (1989), 'Understanding Fashion',UK, Blackwell Science.
Wilcox T. 'The Dictionary of Costume.',UK,- Batsford Ltd.

SEMESTER VI
CORE COURSE – FASHION DESIGN AND TECHNOLOGY
FT6CRP30-FINAL COLLECTION [P]

Credits – 6 (Practical-13)

No. of contact hours – 234

Objectives

- To develop creative designing sensibilities among students for developing ensembles through thematic presentations and interpretations.
- To introduce the students as fashion designers.

Presentation and Evaluation

- Each student will conceptualize and develop a collection of at least five ensembles which demonstrate the student creativity and understanding of the market.
- The collection will be displayed as a fashion show finale.

**Submit a record based on the theme and interpretation of the collection at the
time of external evaluation**

SEMESTER VI

CORE COURSE – FASHION DESIGN AND TECHNOLOGY

FT6CRP31 - ACCESSORY DESIGNING [P]

Credits –2 (Practical-4)

No. Of contact hours – 72

Objective

- To teach the students the art of accessory designing so that they can complement their garment designs with appropriate accessories.

Contents

Module I 14 Hrs

- An introduction to Fashion Accessories.
- Type of Fashion Accessories: - Jewellery (neck lace, earrings, rings, hair ornaments) hats, belts, bags, footwear's and hair accessories.

Module II 16 Hrs

- Designing fashion accessories on the basis of a selective theme: Traditional style, ethnic style, contemporary style, fusion of any above styles.

Module III 16 Hrs

- Material exploration- Develop any accessory from the above mentioned

Module IV 14 Hrs

- Material exploration- Develop a set of Jewellery with any material and a set of eco friendly material.

Module V 12 Hrs

- Prepare fashion accessories based on final collection theme.

Submit the above articles during external evaluation along with the record.

Suggested Readings:

- Joan Evans, (1989), *History of Jewellery*, New York, Dover Publications.
- Steven Thomas, (2012), *Drawing Fashion Accessories*, London, Laurence King Publishings.
- Leonor D'orey, (1996), *Five Centuries of Jewellery: National Mueum of Ancient Art*, London, Zwemmet Publishers.
- Tracey Tolkien & Henrietta Wilkinson, (1997), *A collector's Guide to Costume Jewellery*, Canada, Firefly Books Ltd.

SEMESTER VI
CORE COURSE - FASHION DESIGN AND TECHNOLOGY
FT6CRP32 - PORTFOLIO MAKING [P]

Credits –3 (Practical- 4)

No. of contact hours – 72

Objectives

- The students document all their presentable work done through all semesters and those that portray the student's areas of interest. The portfolio can be an effective means of communicating the capacities and capabilities of the students to anyone who seeks their skills and talents.

Presentation & Evaluation

The portfolio would be done using the art software's of which the student have undergone training.

Students should use computer aided backdrops and various innovative layouts. Appropriate selection of designer display folders & different design options are possible for showcasing their creative works.

Submit the portfolio as a record in the time of external evaluation.

SEMESTER VI

CHOICE BASED COURSE- 1 – FASHION DESIGN AND TECHNOLOGY

FT6CBP01-COMPUTER AIDED PATTERN MAKING AND GRADING [P]

Credits-3 (Practical 4)

No: of contact hours - 72

Objective

- To teach the students basics of computerized pattern making and grading which is useful in industrial garment production.

Contents

Module I	10 Hrs
<ul style="list-style-type: none">• Introduction to computerized pattern making and grading.	
Module II	18 Hrs
<ul style="list-style-type: none">• Pattern Preparation – The Basic Pattern Set<ol style="list-style-type: none">1. Basic Front Bodice2. Basic Back Bodice3. Basic Sleeve4. Basic Front Skirt5. Basic Back Skirt	
Module III	18 Hrs
<ul style="list-style-type: none">• Pattern Preparation – Garments<ol style="list-style-type: none">1. Bib2. A-Line Frock3. T-Shirt	
Module IV	26 Hrs
<ul style="list-style-type: none">• Pattern Grading<ol style="list-style-type: none">1. Basic Front Bodice2. Basic Back Bodice3. Basic Sleeve4. Basic Front Skirt5. Basic Back Skirt	

The Record should be submitted at the time of External Evaluation.

Suggested Readings:

- Alison Beazley and Terry Bond , (2003), *Computer-Aided Pattern Design and Product Development*, United States, Wiley - Blackwell Publishings.
- Sorabji M. Rutnagur, (2003), *The Indian Textile Journal, Vol.114*, Boston, Harvard Business Press.
- Clothing and Footwear Institute, (1998), *Apparel International: The Journal of the Clothing and Footwear Institute*, Great Britain.

SEMESTER VI

CHOICE BASED COURSE-2 – FASHION DESIGN AND TECHNOLOGY

FT6CBP02-APPAREL MACHINERY AND QUALITY CONTROL [T]

Credits-3 (Theory- 4)

No: of contact hours - 72

Objectives

- To develop an understanding of the definition latest technological developments in the apparel industry.
- Understanding the quality control parameters of apparel industry.

Contents

Module I

10 hrs

- Introduction to quality -Key aspects of quality system, objectives of a quality system, Total Quality Management, Role of ISO in quality assurance.

Module II

20 hrs

- Quality control:- principles of quality control -SQC, Quality department, Quality audit, quality monitor, Quality circles, Quality control for exports, operation of quality control systems, design, Standard, levels of standard. Functions of Quality Assurance department, quality check and final inspection, methods of checking, and consignment at final inspection and measurement tolerances in garments.

Module III

15 hrs

- Introduction to Apparel testing and quality control:-
- Apparel testing equipment- GSM, Tensile tester, Bursting strength tester, Tear strength tester, fabric stiffness tester, crock meter, colour matching cabinet.

Module IV

15 hrs

- Quality parameters – (Defects found in yarns, grey fabric, dyeing, printing, bleaching, shearing, mercerization...)

- Components of quality parameters- (Placket, Collar, pocket, vent, Label attachment)
- Terminologies- C.M.T, Defect, Minor Defect, Major Defect, Critical Defect, AQL, 4 point system, DIA, G.S.M, Shrinkage, Breaking strength, Color bleeding,
- Puckering, Pilling. Pilling resistance, Grain seam, batching up, Color smear, patches

Module V

12 hrs

- Technological advancements: -Introduction to CAD & CAM systems, -
- Computer controlled fabric checking machine & laying machines, advanced cutting machines, water jet cutting machines, air jet cutting machines and Laser cutting machines, computer controlled sewing machines, advanced embroidery & sequence fixing machines.

Suggested Readings:

- Sara J.Kadolf, *Quality assurance for Textile and Apparel*, New York, Fairchild publications.
- Gerry Cooklin, Steven George Hayes and John McLoughlin, (2006), *Introduction to Clothing Manufacture*, New Jersey, Wiley-Blackwell.
- Joseph M. Juran and A. Blandon Godfrey, (1999), *Juran's Quality Handbook*, USA, Mc Graw Hill Publishers,

SEMESTER VI

CHOICE BASED COURSE-3 – FASHION DESIGN AND TECHNOLOGY FT6CBP03-ENTREPRENEURSHIP DEVELOPMENT& MANAGEMENT [T]

Credits-3 (Theory- 4)

No: of contact hours - 72

Objectives

- To enable the students to develop entrepreneurial aptitude.
- Analyze the environment related to small scale industry and business.
- Understand the process and procedures of setting up small enterprises.
- Develop Management skills for entrepreneurship development.

Contents

Module I

8 Hrs

- Entrepreneurship - Entrepreneur, Enterprise and Entrepreneurship - meaning, need, transition from income generation to self employment and entrepreneurship, qualities of a good entrepreneur, problems of entrepreneurs.

Module II

6 Hrs

- Factors influencing entrepreneurial development - Economic, Legal, Socioeconomic, Psychological and Environmental factors.

Module III

18 Hrs

- Agencies supporting entrepreneurial development programme - SIDC, SSI, SIDECO, DIC, SIDO IDBI, KITCO, EDII and. TIIC.
- Schemes for assistance- current schemes and programme for individual and group support.

Module IV

20 Hrs

- Small scale industries:- Definition, types, procedure for setting a small scale unit, training facilities for small scale units, problems of small scale units, steps to overcome problems.
- 6 M's of an industry-Management, money, manpower, materials, machines

and marketing

- Project identification and classification - Meaning of Projects, Project identification, Project Classification, internal and external constraints, Project objectives. Elements of project formulation.

Module V

20 Hrs

- Project proposal - Proposal format and content - steps in its preparation, feasibility, testing, SWOT analysis.
- Organization and Management:-Definition and types of organization, Definition, Functions and tools of management, techniques of effective management, energy and time management and its application in garment units

Related Experience:

Visit to SIDCO, DIC or TIIC.

Case study of an enterprise and two entrepreneurs. Preparation of a project proposal for funding.

Suggested Readings:

- Gupta C. B, and Srinivasan N.P, (2004), *Entrepreneurship Development in India*, New Delhi, Sultan Chand & Sons.
- Chunawalla S.A, (1991), *Sales Management*, New Delhi, Himalayan Publishing House.
- Vasant Desai, (2000), *Project Management and Entrepreneurship*, New Delhi, Himalaya Publishing House.
- David H.Moll, (1999), *Entrepreneurship*, New Delhi, Prentice Hall of India.