



UNIVERSITY OF CALICUT

Abstract

B.Sc programme in Costume and Fashion Designing- under CUCBCSS 2014–w.e.f 2014 admission onwards – Approved- Implemented - Orders issued.

G & A - IV - J

U.O.No. 656/2015/Admn

Dated, Calicut University.P.O, 20.01.2015

- Read:-*1. U.O. No. 3797/2013/CU, dated 07.09.2013 (CBCSS UG Modified Regulations)
(File.ref.no. 13752/GA IV J SO/2013/CU).
2. U.O. No. 5180/2014/Admn, dated 29.05.2014 (CBCSS UG Revised Regulations)
(File.ref.no. 13752/GA IV J SO/2013/CU).
3. U.O.No. 9818/2014/Admn , dated 23.10.2014 (CBCSS UG Revised Regulations)
(File.ref.no. 13752/GA IV J SO/2013/CU).
4. Item No: 2 of the meeting of the minutes of the BOS in Fashion Designing held on
24.09.14
- 5.Item no. 5 of the minutes of the meeting of the Faculty of Science held on
22.12.2014
6. Minutes of the Meeting of Academic Council held on 15.01.14

ORDER

The Modified Regulations of Choice Based Credit Semester System for UG Curriculum w.e.f 2014 was implemented under the University of Calicut vide paper read as (1) &(2).

The Revised CUCBCSS UG Regulations has been implemented w.e.f 2014 admission, for all UG programme under CUCBCSS in the University, vide paper read as (3).

The Board of Studies in Fashion Designing has finalized the revised syllabus of BSc Costume and Fashion Designing for implementation w.e.f the Academic Year 2014-2015. vide paper read as (4).

The Faculty of Science has also approved the minutes of the Board vide paper read as (5) and got approved by the Academic Council as per paper read as (6)

Sanction has, therefore, been accorded for implementing the Scheme and Syllabus of BSc Costume and Fashion Designing under CUCBCSS UG 2014, in the University, w.e.f 2014 Admissions.

Orders are issued accordingly.

(The syllabus is attached herewith and is available in the website: universityofcalicut.info)

Muhammed S
Deputy Registrar

To

1. All Affiliated Colleges/SDE/Dept.s/Institutions under University of Calicut.
2. The Controller of Examinations, University of Calicut.
3. The Director SDE, University of Calicut.

Forwarded / By Order

Section Officer

UNIVERSITY OF CALICUT

**B Sc COSTUME AND
FASHION DESIGNING**

**CORE AND
COMPLEMENTARY**

PROGRAMMES

STRUCTURE, SCHEME and

SYLLABUS

2014 Admission Onwards

B Sc Costume and Fashion Designing

Objectives:

There are two main objectives to the B Sc Costume and Fashion Designing programme

1. To train students to a level where they can readily compete for seats for advanced degree courses like M Sc (Fashion Designing) and other fashion designing and textile PG Programmes etc.
2. To produce fashion designing professionals who can be directly employed or start his/her own unit, boutique or can work as freelance designer or even can start textile industry (entrepreneur).

On completion of the B Sc Costume and Fashion Designing Programme, the student will:

- have basic communicative skill in the English language

- have environmental and civic awareness
- Communicative skills and literary sensibility in languages other than English
- have sound knowledge of the theory behind core subjects like, dyeing, sketching, fabric testing and analysis, construction of garments, pattern making, visual merchandising, etc.
- have sound skills in practical subjects like fabric analysis, fashion illustration, dyeing etc.
- be in a position to develop industrial and entrepreneur applications.

Eligibility

Candidate of admission to the B Sc Costume and Fashion Designing Programme should have passed the Higher secondary / Technical higher secondary / Vocational Higher secondary examinations of

Govt. of Kerala or CBSE or any other examinations recognized as equivalent there to by the University of Calicut Applications as one of the optional subjects.

Entrance test

1. Written test(questions of plus2 standard)
2. Skill test

Duration of the programme

Duration of the programme shall be 6 semesters.

Each semester should have 90 instructional days with 5 hours of instruction per day 5-days a week system. The University will conduct semester-end examinations.

PROGRAMME STRUCTURE

Semester	Course code	Course title	Total hours	Hours/ week	Credits	Mark
I	CFD1 A 01	Common course-1 The Four Skills for Communication	72	4	3	100
	CFD1 A 02	Common course- 2 Modern Prose and Drama	90	5	4	100
	CFD1 A 07	Common course- 3 Communication skills in other languages	90	5	4	100
	CFD1 B 01	Core course-1 Textile Manufacture	72	4	4	100
	CFD1 C 01	Complementary course-1 Fabric Design and structure	72	4	3	100
	CFD1 C 02	Complementary course-2 Basics of Fashion	54	3	2	100
	Total			25	20	600

Semester	Course code	Course title	Total hours	Hours/ week	Credits	Marks
II	CFD2 A 03	Inspiring Expressions	72	4	3	100
	CFD2 A 04	Readings on Society	90	5	4	100
	CFD2 A 08	Literature in language other than English	90	5	4	100
	CFD2 B 02	Core course 2 Fabric Analysis Lab	36	3	2	100
	CFD2 C 03 (P)	Complementary course-1 Basic Garment construction lab	54	4	3	100
	CFD2 C 04 (P)	Complementary course-2 Sketching lab	54	4	3	100
	Total			25	19	600

Semester	Course code	Course title	Total hours	Hours/ week	Credits	Marks
III	CFD3 A 11	Numerical Skills	72	4	4	100
	CFD3 A 12	General Informatics	90	5	4	100
	CFD3 B 03	Core Course-3 Design Concept Methodology	72	4	3	100
	CFD3 B 04	Core Course-4 History of costumes	54	3	3	100
	CFD3 B 05	Core Course-5 Surface ornamentation	54	3	2	100
	CFD3 C 05	Complementary-1 Basic pattern making and grading	54	3	3	100
	CFD3 C 06	Complementary-2 Basic garment construction	54	3	3	100
	Total			25	22	700

Semester	Course code	Course title	Total hours	Hours/week	Credits	marks
IV	CFD4 A 13	Entrepreneurship	90	5	4	100
	CFD4 A 14	Banking and Insurance	90	5	4	100
	CFD4 B 06	Core Course-6 Fashion Designing and accessories	54	3	4	100
	CFD4 B 07	Core Course-7 Textile processing	72	4	4	100
	CFD4 C 07 (P)	Complementary-1 Textile processing Lab	72	4	2	100
	CFD4 C 08 (P)	Complementary-2 Basic Garment Construction Lab	72	4	2	100
	Total			25	20	600

Semester	Course code	Course title	Total hours	Hours/ week	Credits	Marks
V	CFD5 B 08	Core Course- 8 Apparel machinery and equipment	72	4	4	100
	CFD5 B 09	Core Course- 9 Garment Finishing and Clothing Care	72	4	3	100
	CFD5 B 10	Core course-10 Quality Control in Garment industry	72	4	4	100
	CFD5 B 11	Core course -11 Marketing Management	72	4	3	100
	CFD5 B 12	Core course -12 Computer Application in Garment Industry	54	3	3	100
	CFD5 D 01	Open Course Industrial Management	72	4	2	50
		Project	36	2		
	Total			25	19	550

Semester	Course code	Course title	Total hours	Hours/ week	Credits	Marks
VI	CFD6 B 13	Core course-13 Visual merchandising	72	4	4	100
	CFD6 B 14	Core course-14 Garment Costing	72	4	3	100
	CFD6 B 15 (P)	Core course-15 Advance pattern making and garment construction lab	90	5	4	100
	CFD6 B 16 (P)	Core course-16 Fashion Accessory Making lab	72	4	4	100
	CFD6 E 01 (E)	Elective course- 1 Fashion design collection/ Textile design collection	72	4	3	100
	CFD6 PR 01 (PR)	Project	72	4	2	50
	Total			25	20	550

Mark Distribution

Common English	4 X100	400	1000	
Additional Lang: Mal /Hindi	2 X 100	200		
General	4 X 100	400		
Core	16 X 100	1600	1800	
Elective	1 X 100	100		
Project	1 X 50	50		
Open	50	50		
Complimentary	I	4 X 100	400	800
	II	4 X 100	400	
TOTAL		3600	3600	

Seven Point Indirect Grading System

Percentage of marks	Grade	Interpretation	Grade point Average (G)	Range of grade points	Class
90 and above	A+	Outstanding	6	5.5-6	First class with Distinction
80 to below 90	A	Excellent	5	4.5-5.49	
70 to below 80	B	Very good	4	3.5-4.49	First class
60 to below 70	C	Good	3	2.5-3.49	
50 to below 60	D	Satisfactory	2	1.5-2.49	Second class
40 to below 50	E	Pass /Adequate	1	0.5-1.49	Pass
Below 40	F	Failure	0	0-0.49	Fail

Guidelines for the Evaluation of Projects

1. Evaluation

- Evaluation of the Project Report shall be done under Mark System.
- The evaluation of the project will be done at two stages:
 - Internal Assessment (supervising teachers will assess the project and award internal Marks).
 - External evaluation (external examiner appointed by the University).
 - Marks secured for the project will be awarded to candidates, combining the internal and external Marks.
- The internal to external components is to be taken in the ratio 1:4.
Assessment of different components may be taken as below:

Internal (20% of total)- 30 marks		External (80% of total)- 120 marks	
<i>Components</i>	<i>% of marks</i>	<i>Components</i>	<i>% of marks</i>
Punctuality	20	Relevance of the Topic, Statement of Objectives, Methodology (Reference/ Bibliography)	20
Use of data	20	Presentation, Quality of	30

		Analysis/Use of Statistical tools, Findings and recommendations	
Scheme/Organization of Report	30	Viva-Voce	50
Viva-Voce	30		

4. External Examiners will be appointed by the University from the list of VI semester Board of Examiners in consultation with the Chairperson of the Board.

5. The chairman of the VI semester examination should form and coordinate the evaluation teams and their work.

6. Internal Assessment should be completed 2 weeks before the last working day of VIth semester.

7. Internal Assessment marks should be published in the department.

8. In the case of courses with practical examination, project evaluation shall be done along with practical examinations.

9. Chairman Board of Examinations, may at his discretion, on urgent requirements, make certain exception in the guidelines for the smooth conduct of the evaluation of project.

2. Pass Conditions

1. Submission of the Project Report and presence of the student for viva are compulsory for internal evaluation. No marks shall be awarded to a candidate if she/he fails to submit the Project Report for external evaluation.

2. The student should get a minimum of 40 % marks of the aggregate and 40% separately for ESE for pass in the project.

3. There shall be no improvement chance for the Marks obtained in the Project Report.

4. In an instance of inability of obtaining a minimum of 40% marks, the project work may be redone and the report may be re-submitted along with subsequent exams through parent department, as per the existing rule of the University examinations.

Internal Mark Calculation

- Components with percentage of marks of Internal Evaluation of Theory Courses are

Attendance	25%
Assignment/ seminar/ viva	25%
Test paper	50%

- For practical courses

Attendance	25%
Lab involvement	25%
Record	50%

Credit and Hours Distribution

semester	Credit for					Total	Hours for core and general	Hours for			Total hours per week
	Core*	Complementary	English	SL	General			Eng	SL	Complementary	
1	4	5	7	4	-	20	5	9	5	5	25
2	2	6	7	4	-	19	3	9	5	8	25
3	8	6	-	-	8	22	19	-	-	6	25
4	8	4	-	-	8	20	17	-	-	8	25
5	19*	-	-	-	-	19	25	-	-	-	25**
6	20***	-	-	-	-	20	25	-	-	-	25****
Total	63	19	14	8	16	120					

*Cr (Including Op. C.)

**Hrs (including proj & Op.C.)

***Cr (Including Ele. &Proj.)

** **Hrs (including Ele & proj)

QUESTION PAPER SCHEME

1. Core and Complimentary I : (Total= External 80 + internal 20= 100)

Type of Questions	Question Numbers	Choice	Marks	Total Marks
One word question	10	Nil	1	10
Short Answer Questions	7	Any 5	2	10
Short Essays	8	Any 6	5	30
Long Essays	4	Any 2	15	30
Total mark				80

2. Open : (Total= External 40+ internal 10= 50)

Type of Questions	Question Numbers	Choice	Marks	Total Marks
One word question	5	Nil	1	5
Short Answer Questions	5	Nil	2	10
Short Essays	5	Any 3	5	15
Long Essays	3	Any 1	10	10
Total mark				40

SEMESTER I

CORE COURSE-1

CFD1 B 01 - TEXTILE MANUFACTURE

1. **INTRODUCTION TO TEXTILE FIBERS:** Definition of fibers, Types, Classification, Identification, properties.
2. **YARN MANUFACTURING PROCESS:** Objectives, working principles of blowroom
carding, drawing, combing, spinning -definition types of spinning, Objective & working principles of rotor spin, airjet, friction spin, numbering system.
3. **MANUFACTURING PROCESS AND PROPERTIES OF DIFFERENT FIBERS-**Natural Fibers- Cotton, jute, silk & wool.
Manmade Fibers spinning methods: Dry Spinning, Melt Spinning, Wet Spinning
Manmade fibers: Viscose & Rayon
4. **TEXTURISATION:** Definition, properties & uses.
5. **SEWING THEARD MANUFACTURE:** Quality particulars, types.
6. **KINTTED FABRICS:** Comparisons of basic properties of woven & knitted fabric, Important features of warp and weft knitting

References

- 1) T extile fiber to fabric, Barnard P.Corbman,MacGraw - Hill International.
- 2) Textiles Sara.J.Kadoiph and Anna L Langford, Prentice Hall.

SEMESTER I

COMPLEMENTARY -1

CFD1 C O1 - FABRIC DESIGN AND STRUCTURE

- 1. INTRODUCTION:** Importance of fabric structure, types, preparatory machines for weaving, cone winding, cheese winding, pirn winding, warping and sizing objectives and working.
Principles of handloom, powerloom, automatic loom, shuttle loom, shuttless loom, dobbies and jacquards.
- 2. ELEMENTS OF WOVEN STRUCTURE:** Construction of basic weave-plain and its derivatives. Twill and its derivatives. Satin and its derivatives.
- 3. BEDFORD CHORD WEAVE:** Plainfaced, twill faced ,wadded.
- 4. HONEY COMB:** Ordinary and Brighten honeycomb
- 5. GAUZE, LENO, MOCK, BROCADES**
- 6. COLOUR THEORY:** Light and pigment theory, modification colour, colour in combination, application of colour and colour effects.
- 7. EXTRA WARP AND EXTRA WEFT FIGURING:** Extra warp and extra weft figuring with 2 colours.
- 8. BACKED FABRICS:** Warp and weft backed fabric, reversible and non-reversible fabric.
- 9. WARP PILE AND WEFT PILE:** Warp pile and weft pile, terry weaves, terry stripes terry checks, plain back, twill back velveteen, corduroy, weft plush, length, density and fastness of pile.
- 10.DOUBLE CLOTH:** Classification, self stitched, face to back, back to face.
- 11.CREPE FABRICS:** Preparation of yarn crepe effect, creping methods.

12.WELT AND PIQUES: Wadded piques, loose back and fast welt and piques.

References:

1. Watsons Textile Design and Colour, Z Grosicki, Woodhead publishing Ltd.

SEMESTER I

COMPLEMENTARY - 2

CFD1C O2 - BASICS OF FASHION

Unit 1

8-head theory, 10-head theory, Stylized figure

Unit 2

Fashion Terms:-Print – a Porter, Couture fashion, Silhouette and Styles, Boutique, Trickle up & Trickle down theory, Fashion forecasting

Unit 3

Types of figures Fit of the garment, Five elements of fit, Grain, Set, Line balance, Ease, Usual defects in garments

Unit 4

Definitions, Grain Line, Pattern grading, Sizing, Block pattern, Draping, Dress form, Mannequin

References

Gavin Waddell: How Fashion Works, Black Well Publishing ,2004.

Sharon Lee Tate: Inside Fashion Design; Pearson Education Inc; 2004

SEMESTER II

CORE COURSE - 2

CFD2 B O2 (P) - FABRIC ANALYSIS (PRACTICAL)

1. Yarn Twist
2. Yarn crimp percent
3. Yarn Count
4. Fabric Crease Recovery
5. Fabric Stiffness
6. Fabric Drape
7. Fabric Abrasion Resistance
8. Tearing strength tester
9. Woven cloth analysis: Weave Draft plan peg plain warp and weft particulars, threads per inch, total cover factor
10. Knitted cloth analysis (For different Structures) - Materials counts structures, Wales per inch - coarse per inch - loop length ,course length -stitch density - GSM- tightness factor.

References

1. Principles of Textile Testing, J.E. Booth. CBS Publishers & Distributors.

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SEMESTER II

COMPLEMENTARY - 1

CFD2 C 03 - BASIC GARMENT CONSTRUCTION

(PRACTICAL)

1. Basic construction

- a. Plackets- continuous bound placket, bound and faced(2-piece) placket, zipper placket, Kurtha placket.
- b. Collars- peterpan, sailer, Chelsea, bishop.
- c. Pockets- patch, bound ,seam.
- d. Sleeves- plain, puff, circular, kimono, raglan
- e. Skirts- gathered, pleated, layered, A-line, circular, gored, yoke, Bermuda

2. Fullness

- a. Dart-standard, two- point.
- b. Pleat- box, inverted, pinch
- c. Tuck- pin, shell, cross
- d. Ruffles- double, circular

3. New born set- panties, jabla, bib, napkin

References:

1. Handbook of fashion designing, Ritu Jindal, S. Malhan, Mittal publications, New Delhi
2. Zarapkar system of cutting, Navneet publications, India Ltd, Gujarat.

SEMESTER II
COMPLEMENTARY - 2

CFD2 C 04 (P) – SKETCHING (PRACTICAL)

1. **GEOMETRICAL CONSTRUCTION:** Basic design and proportion, Block figures, fleshing out.
2. **CALLIGRAPHICAL FIGURES:** Nude figures with garment draping, shading with different pencils.
3. **COLOUR:** Prang colour system, dimensions of colour, how to change, Hue, Value & intensity.
4. **FEATURES:** Photo Analysis, Compositions, Fashion Illustration, Positive and Negative.
5. **STILL AND LIVE MODELS.**
6. **CHILDREN ILLUSTRATION,** Features, children, Male Anatomy, Male Rendering
7. **TEXTURES,** Different mediums, Stylized Sketches.
8. **TECHNIQUES AND PRESENTATION:** Collage, Materials, Layout and Presentation.
9. **TRADITIONAL COSTUMES OF INDIA STATES AND FOREIGN COUNTRIES.**

Reference:

1. Illustrating Fashion - KathryaMcKinley, Blackwell Science
2. Figure Drawing For Fashion Design - Elisabetta Drudi, The pepin.

SEMESTER III

CORE COURSE - 3

CFD3 B O3 - DESIGN CONCEPT METHODOLOGY

- 1. INFLUENCE ON CONSUMER CLOTHING SELECTION:**
Psychological and Demographics influence, Fashion industry influence.
- 2. ELEMENTS OF DESIGN:** Introduction on elements applied to clothing of design, Shape and Form, space, line, colour, Textures, Interrelation of element of design.
- 3. PRINCIPLES OF DESIGN APPLIED TO CLOTHING:** Introduction of principles of design - Proportion, Balance, Unity, Rhythm, Designs, Emphasis, Harmony.
- 4. FABRIC DESIGN COMPONENTS:** Pattern and Motif - using fabric, designs, and consumer clothing selection issues.
- 5. COLOUR ASPECTS OF APPAREL:** Psychology of colour on dressing, Illusion created by colours and lines on garment.
- 6. KINDS OF TRIMS AND THEIR USES:** Linear trims, Area trims, Leather and Fur.
- 7. DESIGN SOURCES** - Fashion services and Resources, International fashion centers.
- 8. CURRENT FASHION TRENDS.**

References:

1. Elements of Fashion and Apparel Design, Sumathi, G.J, New age international Ltd. New Delhi
2. Individuality in Clothing Selection and Personal Appearance, 5th edition, Prentice Hall, Columbus, Ohio

SEMESTER III

CORE COURSE - 4

CFD3 B 04 - HISTORY OF COSTUMES

- 1. COSTUMES:** beginning of costumes, origin of clothing, growth of dress, painting, cutting and other methods
- 2. COSTUMES OF INDIA:** traditional costumes of different states of India
- 3. FABRIC DEVELOPMENT OF INDIA:** different traditional textiles and embroideries, brocades, dyed and printed textiles
- 4. COSTUMES:** Thailand, Cambodia, Philippines, Srilanka, Indonesia, Burma, Pakistan, China, Japan
- 5. COSTUMES OF ANCIENT CIVILIZATION.**
- 6. FRENCH COSTUMES DURING RENAISSANCE- AD 1500-1600**
- 7. ENGLISH TEXTILES AND COSTUMES- MIDDLE AGE**
- 8. AMERICAN COSTUMES- 18TH -20TH CENTURY**
- 9. DEVELOPMENT OF APPAREL INDUSTRY THROUGH DIFFERENT STAGES**
- 10.MAJOR TRIMMINGS AND DECORATIONS**

References:

1. Folk Costumes of the World, Robert Harrold and Phyllida Legg, 2002.
2. History of 20th Century Fashion, Elizabeth Ewing, Revised by Alice Mackrell.

SEMESTER III

CORE COURSE - 5

CFD3 B 05 - SURFACE ORNAMENTATION

Trimmings and Decoration-Meaning and Introduction

Trimmings-Types-Laces-Faggoting-Tassels-Fringes and Beading

Structural Decoration and Basic embroidery-History types

Quilting-Smocking-Applique –Beading

Knitting crocheting brading-Their types and definitions

References:

**Diana Lodge: Traditional Needle Arts Patch Work, ; Mitchell Beamley
1994**

**Dorothy Woodk :The Practical Encyclopedia of Sewing ; Anness
publication Immitted, London 1999**

SEMESTER III
COMPLEMENTARY -1
CFD3 C 05 - BASIC PATTERN MAKING AND GRADING

1. **ANATOMY**- preparation and disproportion of human figures.
Measurement and its importance. Standard body measurements for children, ladies and gents, importance and sequence of taking measurements. Basic blocks- bodice- sleeve- skirt- trouser
2. **DRESS FORMS**- importance of dress forms and draping, importance and principles of drafting and paper patterns
3. **FLAT PATTERN TECHNIQUES**
4. **PREPARATION OF PAPER PATTERNS AND LAYING.**
5. **FITTING**- Definition, Basic principles of fitting techniques, causes of poor fit, principles of pattern alterations, alteration of pattern for irregular figures
6. **GRADING**- Master grades, basic block grading, basic front grading, basic sleeve grading, basic collar grading, principles of shaped sleeve, selecting grading systems.

References:

1. Pattern grading for Women's clothes, Gerry Cooklyn, Blackwell publishing
2. Handbook for fashion Designing, Ritu Jindal, S. Malhan, Mittal publications New Delhi

SEMESTER III
COMPLEMENTARY -2

CFD3 C O6 - BASIC GARMENT CONSTRUCTION

1. **STITCHES:** Classification, classes and its types- temporary and permanent stitches, standards for good stitches and application of types of stitches
2. **SEAMS:** Definition, Classes, and types of seams, seam finishes, suitability and applications in various garments
3. **COLLARS:** Definition, factors to be considered in designing collars, classification and drafting of different types of collars- rippled collar, scalloped collar, turtle collar, full roll.
4. **YOKE:** Creating variety in yoke designs, preparing yokes- method of drafting, types of yokes-Partial, mid riff, shoulder yoke.
5. **SKIRTS:** Types, drafting, adding fullness and controlling fullness, finishing skirt
6. **SLEEVE:** Making and constructing sleeve, types, set-in sleeve, sleeve bodice combination, plain, puff, bell, bishop, leg-O-mutton, circular sleeve, kimono, raglan, dolmans sleeve

References:

1. Handbook of fashion designing, Ritu Jindal, S. Malhan, Mittal publications, New Delhi
2. Zarapkar system of cutting, Navneet publications, India Ltd, Gujarat.

SEMESTER IV
CORE COURSE - 6

CFD4 B 06 - FASHION DESIGN AND ACCESSORIES

- 1. FASHION ACCESSORIES-** the accessories industries
- 2. ACCESSORIES DESIGNERS-** The business of accessories, economic importance, marketing
- 3. FASHION DESIGNERS-** Indian and Western Designers
- 4. FASHION ACCESSORIES-** Footwear, Handbags, Bells, Gloves, Hats, Scarves, Hosiery, jewellery- Designing
- 5. OTHER ACCESSORIES-** Glasses, sunglasses, scarf, belts, handkerchiefs, umbrella and wigs- designing
- 6. TRIMMING-** Threads, Elastic, Interfacing, Narrow fabrics, Fastening Belts
- 7. THE LEATHER INDUSTRY-** Leather processing, environmental concerns, Leather promotion and marketing.
- 8. THE FUR INDUSTRY-** Fur sources, fur processing, fur manufacturing and marketing
- 9. AESTHETICS OF A WELL DRESSED PERSON-** selection of fabrics, textile, pattern and color. Structural and decorative design, aesthetic requirement for men's dress and women's dress. Planning wardrobe for different age groups- health and comfort in dress, economy in dress
- 10. FASHION SHOWS AND WINDOW DISPLAY-** Importance, fashion forecasting
- 11. INTIMATE APPAREL-** Industry segments, economic importance, and marketing.
- 12.PORTFOLIO DEVELOPMENT**
- 13.CREATION OF ACCESSORIES**

References:

1. Individuality in Clothing Selection and Personal Appearance, 5th edition, Prentice Hall, Columbus, Ohio
2. Fashion from concept to consumer by Gini Stephans, Prentice Hall

SEMESTER IV

CORE COURSE - 7

CFD4 B 07 - TEXTILE PROCESSING

PREPARATORY PROCESS IN WET PROCESSING: Sequence of processes used in Textiles Wet Processing for cotton, polyester, and cotton blend- brushing and shearing-singeing- enzyme desizing method- alkali scouring by kier boiling, J box, bleaching, mercerization

DYEING: Different types used for Cellulosic, Protein and Synthetic fibres- Dyeing methods of Cellulosic Fibre with Reactive and Vat dyes. Dyeing of Polyester with Disperse Dyes. Hank dyeing, Beam dyeing, Jigger Dyeing, Winch Dyeing, Padding Mangle, Natural dyes.

PRINTING: Style of Printing-Screen printing- Steaming and curing- Printing of Cellulosic Fibre with Reactive Dyes- Polyester with Disperse dye Printing of synthetics. Roller Printing, Screen Printing- Tie and Dye- Flock Printing, Transfer Printing, Sublimation Transfer printing- Preparation of Logos and motifs for fixing on garments.

FABRIC AND GARMENT FINISHING: Basic and functional finishes- Water repellency, Water Proofing, Flame Retardant, Anti shrinkage, Stiffening, Glazing, Embossing and moireing

References:

1. Dyes and Dye intermediates by NIIR Board of consultants and Engineers
2. Textile Finishing, W.S.Murphy, Abishek publications

SEMESTER IV

COMPLEMENTARY -1

CFD4 C 07 - TEXTILE PROCESSING (PRACTICAL)

1. Scouring of cotton yarn/cloth
2. Bleaching of cotton yarn/cloth
3. Mercerization of cotton yarn/cloth
4. Dyeing with Direct dyes
5. Dyeing with Cold brand/Hot brand- Reactive dyes
6. Dyeing with Vat dyes
7. Dyeing with Sulphur dyes
8. Identification of different fibers/yarn blend ratio
9. Measurement of colorfastness- washing- rubbing- light- perspiration
10. Printing of Cotton and Cotton blends, Viscose, Rayon, Nylon, Polyester and Wool

References:

1. Dyes and Dye intermediates by NIIR Board of consultants and Engineers
2. Textile Finishing, W.S.Murphy, Abishek publications

SEMESTER IV

COMPLEMENTARY - 2

CFD4 C 08 - ADVANCED PATTERN MAKING AND GARMENT CONSTRUCTION (PRACTICAL)

LADIES WEAR

1. BRASSIERS
2. SAREE PETTICOAT-SIX PANEL
3. SAREE BLOUSE
4. LADIES TOP

MEN'S WEAR

1. SLACK SHIRT
2. PYJAMA
3. KALIDAR KURTHA
4. NARROW BOTTOM PANTS

SEMESTER V
CORE COURSE - 8

CFD5 B 08 - APPAREL MACHINERY AND EQUIPMENTS

- 1. MARKER MAKING:** Dimensions of markers & types
- 2. SPREADING:** Requirements, Machineries and Equipments
- 3. CUTTING MACHINES:** Straight knife, Round knife, Band knife, Notches, Drills and Thread Makers and Dye Cutting
- 4. QUALITATIVE AND QUANTITATIVE FACTORS** of Flat bed, Cylinder bed, Raised bed, Post bed machines, Lubricating Systems, Stitch forming mechanisms
- 5. STITCHING MECHANISMS:** Machines variables, Machine speed, Needle type, Surface finish and functions of bobbin parts
- 6. SEWING MECHANISMS:** Machine variables, Machine speed, Needle type, Surface Finish and functions of bobbin parts
- 7. SEWING THREADS:** Characteristics of thread, sizes, thread control devices, lower stitch- forming device
- 8. FEED SYSTEMS:** Presser foot, Throat plate, Feed mechanism, Speed potential
- 9. STITCHES:** Properties, stitch, classes 100-600
- 10. SEAMS:** Appearance, Performance options, Basic Sewing Machines- general sewing machine overload-Blind Stitching, Buttonholes-Barrack-Button Sewing
- 11. PRESSING:** Introduction-Equipments

References:

1. Apparel manufacturing- Sewn product Analysis, Ruth E.Glock, Grace.I Kunz
2. Introduction to Clothing Manufacture- Gerry Cooklin, Om books service, New Delhi

SEMESTER V

CORE COURSE - 9

CFD5 B 09 - GARMENT FINISHING AND CLOTHING CARE

1. **WATER:** Hardness and softness- determination and treatment, demineralization for textile industry.
2. **WASHING:**
 - a. Principles of laundering, study of laundry equipments and laundry reagents- traditional and modern
 - b. Different methods of washing- application of fiction by hand, rubbing, scrubbing, study of different types of washing machines- domestic and industrial.
3. **STUDY OF STAIN REMOVAL:** beverages, protein, oil and Grease, rust, henna, ink, lipstick, perspiration, nailpolish, perfume, shoepolish.
4. **STIFFENING AGENTS:** Types, preparations
5. **WHITENING AGENTS:** Bleaches, blues, fluroscent, optical whitening agents.
6. **FINISHING:**
 - a. Methods- damping, ironing, pressing, steaming, mangling, calendaring
 - b. Types and parts of iron
 - c. Study of special finishes given to textiles
7. **DRY CLEANING**
8. **CARE LABELS:** Definitions, types, different systems.
9. **STORAGE OF DIFFERENT FABRICS**

References:

1. Fabric care, Noemia D'souza, New Delhi

SEMESTER V

CORE COURSE -10

CFD5 B 10 - QUALITY CONTROL IN GARMENT INDUSTRY

- 1. DEVELOPMENT OF NEW STYLE:** The designer, designer samples, the pattern makers role, “The Pilot Run”
- 2. QUALITY SPECS AND STANDARDS IN RAW MATERIALS**
PURCHASING: Purchasing specs, buying by grade, testing and inspection of raw materials.
- 3. QUALITY CONTROL IN SPREADING CUTTING AND BUNDLING PRODUCTS:** Spreading properties of fabrics, plaids and naps, tension in spreading fabrics, quality factors in cutting, bundling and ticketing
- 4. QUALITY FACTORS IN SEWING DEPARTMENT:** Setting quality standards for sewing operations, in- process quality inspection, in-process inspection procedures
- 5. CONTROLABLE QUALITY FACTORS:** Seam angles.

References:

1. Apparel manufacturing- Sewn product Analysis, Ruth E.Glock, Grace.I Kunz.
2. Quality assessment of textiles, Karl Mahall

SEMESTER V
CORE COURSE - 11

CFD5 B 11 - MARKETING MANAGEMENT

1. **MARKETING** –Marketing concepts, Marketing Managements, Marketing systems, Marketing organization, Strategic marketing process, marketing environment, Marketing of apparel and fashion products
2. **Buying behavior**, Buying process, market segmentation and target marketing
3. **Market measurement** and forecasting demand, competitive marketing strategy
4. **Marketing mix** – Advertising and sales promotions and public relations
5. **Product life cycles**, New product development.
6. **Marketing research**-Purpose, Procedure, Application
7. **Merchandising-Merchandise**, Apparel and Fashion Merchandising, Role of Merchandiser, Comparison between them, selection of buyers and buying agencies.
8. **Merchandising correspondence** orders, Handling of orders and dealing with manufacturers, advertising, trade fare participation and other methods of sales promotion in merchandising

References:

1. Fashion marketing, Mike Easey, Blackwell science
2. Fashion marketing and merchandising, Manmeet Soudiya

SEMESTER VI
CORE COURSE - 12

CFD5 B 12 - COMPUTER APPLICATION IN GARMENT INDUSTRY

- 1. CAD-EVOLUTION ADVANTAGES OF MARKER MAKING AND GRADING**
- 2. COMPUTER AIDED FABRIC DESIGN**-Computerised fabric inspection system.
- 3. COMPUTER AIDED COLOUR MATCHING**
- 4. COMPUTER AIDED GARMENT MANUFACTURING** – Pattern design system basic function, pattern manipulation, digitizing a **pattern**
- 5. COMPUTER GRADING WITH CAM**—Method of grading, grade rule library.
- 6. MARKER MAKING WITH CAM**-Features of a marker, lay planning, Fabric consumption, Marker efficiency, Plotters-Flat bed Plotter, Drum plotter.
- 7. COMPUTER CONTROLLED SEWING MACHINES AND EMBROIDERY MACHINES.**
- 8. COMPUTERISED BULK CUTTING**-Computer controlled clothes spreader, cutting heads.
- 9. COMPUTER CONTROLLED OVERHEAD TRANSPORT AND WAREHOUSE STORAGE SYSTEMS.**
- 10. COMPUTER AIDED MANAGEMENT AND PRODUCTION CONTROL**-Production scheduling, Order entry, Order control.

References:

1. Patrick Taylor”Computers in Fashion Technology” Heinemann professional publishing
2. Winifred Aldrich, CAD in clothing and textiles, Black well Science ltd., 1994

SEMESTER V

OPEN COURSE-1

CFD5 D 01 - INDUSTRIAL MANAGEMENT

1. **PRINCIPLES OF MANAGEMENT:** Organizing, staffing, Coordination, Directing and controlling
2. **PLANNING FOR A GARMENT INDUSTRY:** Selection of sites- building structure, selection and balancing of machines- layout of machines
3. **LIGHTING:** ISI standards for lighting- ventilation
4. **SAETY PRECAUTIONS AND APPLIANCES.**
5. **BASICPRINCIPLES OF WORK STUDY AND MOTION STUDY**
6. **PLANT MAINTAINENCE AND ITS IMPORTANCE**
7. **INVENTORY CONTROL**
8. **PRODUCTIVITY IN GARMENT INDUSTRY:** Measurement- methods for improvement
9. **FACTORY ACTS IN GENERAL:** health, cleanliness, ventilation, payment of wages and salary, administration, safety welfares
10. **WORKING HOURS:** industrial disputes, strikes, lockout, layoff.

References:

1. Fashion marketing, Mike Easey, Blackwell science
2. Fashion marketing and merchandising, Manmeet Soudiya

SEMESTER VI

CORE COURSE -13

CFD6 B 13 - VISUAL MERCHANDISING

Unit 1

Introduction to visual merchandising- Roll of visual merchandising in fashion industry-Its types-Benefits of visual merchandising-Objectives.

Unit 2

Window display-Types-Benefits-Importance of window display in fashion business-Materials used-Lighting – Colour-Texture

Unit 3

Store lay out planning-Interior and Exterior of stores-Uses of fixture-Uses of Mannequin-Types of mannequin-3 D Dressing, Dress forms

Unit 4

Fashion Shows-Types-Benefits- Needs-its effect on promotion of facts.

References:

- Laurel L Bliss, Study Guide Visual merchandising and Display third edition, Fair Child publication 1995
- Martin M Peglaer(SVM), Visual merchandising and display third edition, Fair child Publication, New York(1995)

SEMESTER VI

CORE COURSE -14

CFD6 B 14 - GARMENT COSTING

- 1. INTRODUCTION TO COST ACCOUNTING: Responsibility accounting, Uses of Cost accounting, Elements of cost, Direct material, Direct labour, Factory overhead, Cost of goods manufactured statements, Cost behaviour patterns in the apparel industry, Fixed Variable, Semi variable, Job order for process costing.**
- 2. ACCOUNTING FOR FACTORY OVERHEAD-Capacity level concepts, Production and service Dept, Direct and Indirect cost, Over and under applied overhead.**
- 3. COST VOLUME PROFIT ANALYSIS**
 - (b) Break even analysis –contribution margin, variable cost ratio, and marginal income, sales mix by garment style, Effect of volume change, Price/volume analysis**
 - (c) Apparel Marketing cost analysis-Marketing cost accounting, Marketing cost standards, Variance analysis for marketing costs, Effective variance.**
- 4. DETERMINING PRICING OF APPAREL PRODUCTS-Price elasticity of demand and supply, marginal revenue and marginal cost, cost plus pricing, variable cost pricing, Direct cost pricing**
- 5. DERIVATION OF COST OF APPAREL-Woven and knit**
- 6. THE BUDGETING PROCESS-Budget principles for the apparel industry, Fixed vs Variable budget, Lamination of budgets in any justification efforts**

SEMESTER VI

CORE COURSE - 15

CFD6 B 15 - ADVANCED PATTERN MAKING AND GARMEENT CONSTRUCTION II

LADIES WEAR

1. NIGHT DRESS
2. KAMEEZ
3. SALWAR
4. CHIRIDAR

MEN'S WEAR

1. S.B.VEST
2. JEANS
3. FULL SLEEVE SHIRT
4. S.B.COAT
5. PLEATED TROUSERS

References:

1. Zarapkaaar "System of cutting" Navneet Publications(India) Ltd., 1999.
2. Ritu Jindal "Hand book for Fashio Designing" Mittal Publications, 1998.

SEMESTER VI

CORE COURSE -16

CFD6 B 16 - FASHION ACCESSORY MAKING

Unit 1

Ear Ornament-Head Ornament-Waist Ornament-Leg Ornament using different medium

Unit 2

Bags using different medium, Footwear using different medium, different occasion-Different types of headgear with different medium

Unit 3

Flower making using different medium, different accessories using different materials

Unit 3

Making a complete bridal ornament for three different cultures

SEMESTER VI
ELECTIVE COURSE 1
CFD6 E 01 - FASHION DESIGN COLLECTION /
TEXTILE COLLECTION

1. **GROOMING** -Clothing for Men/Women
2. **HAIR STYLES** -Casual / Formal styles
3. **MAKEUP** -Casual/formal makeup's

4. **PERSONALITY DEVELOPMENT** – Characteristics of a Healthy personality.
5. How to improve working Memory –How to make Powerful first impression – How to develop self discipline-How to be a good leader-how to motivate yourself- tips on organizing times- how to make a great first impression- positive communication techniques- confidence building techniques- how to achieve success
6. Design collection- preparation of boards
7. Preparation of final portfolio
8. **TEXTILE DESIGN COLLECTION**
9. **PREPARATION OF BOARDS**
10. **PREPARATION OF FINAL PORTFOLIO**
11. **TEXTILE RECYCLING**- waste management- used cloth and used industrial waste

Reference:

1. Inside fashion design, by Sharon Lee Tate, East Los Angeles College

SEMESTER VI

CFD6 PR 01 - PROJECT

Project work shall be carried on a selected topic during the 6th semester either in the institute, organization, or in the industry under the supervision of the guide. All students shall submit 3 copies of the research to the department before the commencement of the 6th semester exam.