



UNIVERSITY OF CALICUT

Abstract

General and Academic - Faculty of Science - Syllabus of BSc Costume and Fashion Designing Programme under CBCSS UG Regulations 2019 with effect from 2019 Admission onwards - Implemented- Orders Issued

G & A - IV - J

U.O.No. 8947/2019/Admn

Dated, Calicut University.P.O, 06.07.2019

*Read:-*1) U.O No. 4368/2019/Admn dated 23.03.2019

2) Item No. 2 in the minutes of the meeting of the Board of Studies in Fashion Designing held on 28.05.2019

3) Item No. 1.8 in the minutes of the meeting of Faculty of Science held on 27.06.2019

ORDER

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

The meeting of Board of Studies in Fashion Designing held on 28.05.2019 has approved the Syllabus of BSc Costume and Fashion Designing Programme in tune with the new CBCSS UG Regulations with effect from 2019 Admission onwards, vide paper read second above.

The Faculty of Science at its meeting held on 27.06.2019 has approved the minutes of the meeting of the Board of Studies in Fashion Designing held on 14.06.2019, vide paper read third above.

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

The Scheme and Syllabus of BSc Costume and Fashion Designing Programme in accordance with CBCSS UG Regulations 2019 is therefore implemented in the University with effect from 2019 Admission onwards.

Orders are issued accordingly. (Syllabus appended).

Biju George K

Assistant Registrar

To

The Principals of all Affiliated Colleges

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

Forwarded / By Order

Section Officer

UNIVERSITY OF CALICUT
CALICUT UNIVERSITY P.O



BACHELOR OF SCIENCE
IN
COSTUME AND FASHION DESIGNING
CHOICE BASED CREDIT AND SEMESTER SYSTEM UG (CBCSS UG – 2019)

UNDER THE
FACULTY OF SCIENCE

PROGRAMME CURRICULUM
(FOR THE STUDENTS ADMITTED FROM THE ACADEMIC YEAR 2019–20 ONWARDS)

BOARD OF STUDIES IN FASHION DESIGNING (SINGLE BOARD)

Thenhipalam, Calicut University
P.O Kerala, 673 635, India
June, 2019

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REGULATIONS

FOR THE DEGREE OF B.Sc (COSTUME AND FASHION DESIGNING) Effective From The Academic Year 2019 – 20

1. TITLE OF THE PROGRAMME:

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

2. PROGRAMME OBJECTIVES

Fashion Design is considered to be a very prosperous vocational education stream not only in India but abroad as well. This is primarily because the Fashion industry has grown by leaps and bounds and that too within a decade. The present world is in need of professionals who are experts in the respective fields and hence restructuring of the curriculum should possess components as catalyst to achieve the goals. The curriculum of this programme is designed in such a way that the students are ‘industry ready’ at their exit point.

Upon successful completion of the course, students will:

- Able to exploration the fashion as an art form and a medium of communication and expression.
- Equip to meet the requirements of the Fashion industry in the country and outside.
- Demonstrated innovative approaches to fashion built on knowledge and awareness of the system
- Acquire self and professional management skills in terms of interaction, teamwork and time constraints at a professional level.
- Demonstrated an ability to effectively communicate concepts, methods and design proposals in spoken, visual and written forms.
- Execute sophisticated rendering, design, and computer skills to illustrate concepts, communicate design development ideas, create effective presentations, and translate into technical specifications.
- Employ concepts of sustainability in global, environmental, social and economic contexts as fundamental characteristics of a comprehensive design strategies in the fashion industry.

3. ELIGIBILITY CRITERIA FOR ADMISSION

- The admission to this programme will be as per the rules and regulations of the University for UG admissions.
- Basic eligibility for B.Sc Costume and Fashion Designing is 10+2 in any stream.
- A weightage of 50 marks will be given to VHSE students from the concerned area of specialisation
- The eligibility criteria for admission shall be as announced by the University from time to time.

4. DURATION OF THE PROGRAMME

- The duration of this programme shall be 6 semesters distributed over a period of 3 academic years. The odd semesters (1,3,5) shall be from June to October and the even semesters (2,4,6) shall be from November to March.

5. PROGRAMME STRUCTURE

The courses of this programme shall include five types of courses, viz; Common Courses (Code A), Core courses (Code B), Complementary courses (Code C), Open Course (Code D) and Audit courses (Code E).

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

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

B.Sc COSTUME AND FASHION DESIGNING**PROGRAMME STRUCTURE****SEMESTER I**

C. No	Course Code	Course Name	Credit	Marks			Hours/week			Total Hrs /Sem
				Int	Ext	Tot	L	P	Tot	
1.1	A01	English	4	20	80	100				
1.2	A02	English	3	15	60	75				
1.3	A07	Language Other than English	4	20	80	100				
1.4	CFD1B01	Textile Manufacture	3	15	60	75	4	0	4	64
1.5	CFD1C01	Basics of Fashion and Design	2	15	60	75	3	0	3	48
1.6	CFD1B02 (P)	Pattern Making I – Lab	2	15	60	75	0	3	3	48
1.7	CFD1C02 (P)	Basic Sketching –Lab	2	15	60	75	0	3	3	48
1.8		Ability Enhancement Course	4							
Semester I Total			20			575				

Job Roles

Assistant Fashion Designer
Assistant Fashion Coordinators

SEMESTER II

C. No	Course Code	Course Name	Credit	Marks			Hours/Week			Total Hrs /Sem
				Int	Ext	Tot	L	P	Tot	
2.1	A03	English	4	20	80	100				
2.2	A04	English	3	15	60	75				
2.3	A08	Language Other than English	4	20	80	100				
2.4	CFD2B03	Fabric Construction Techniques	3	15	60	75	4	0	4	64
2.5	CFD2C03	Apparel Machinery & Equipments	2	15	60	75	3	0	3	48

2.6	CFD2B04(P)	Fabric Analysis -- Lab	2	15	60	75	0	3	3	48
2.7	CFD2C04 (P)	Basic Sewing Techniques - Lab	2	15	60	75	0	3	3	48
2.8		Ability Enhancement Course	4							
Semester II Total			20			575				

Two days Field Trip to weaving units and wet processing units – Submit Report

Job Roles :	Sewing Operator Assistant Fashion Designer
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SEMESTER III

C. No	Course Code	Course Name	Credit	Marks			Hours/ Week			Total Hrs /Sem
				Int	Ext	Tot	L	P	Tot	
3.1	Common Course - 1	Basic Numerical Methods	4	20	80	100	4	0	4	64
3.2	Common Course – II	Professional Business Skills	4	20	80	100	4	0	4	64
3.3	CFD3B05	Traditional Indian Textiles and Costumes	3	15	60	75	4	0	4	64
3.4	CFD3C05	Textile Processing	3	15	60	75	4	0	4	64
3.5	CFD3B06 (P)	Fashion Illustration - Lab	2	15	60	75	0	3	3	48
3.6	CFD3C06 (P)	Textile Processing - Lab	2	15	60	75	0	3	3	48
3.7	CFD3B07 (P)	Pattern Making II - Lab	2	15	60	75	0	3	3	48
3.8		Ability Enhancement Course	4							
Semester III Total			20			575				

Job Roles	Asst. Fashion Designer Asst. Garment Cutter
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SEMESTER IV

C. No	Course Code	Course Name	Credit	Marks			Hours/Week			Total Hrs /Sem
				Int	Ext	Tot	L	P	Tot	
4.1	Common Course – III	Entrepreneurship Development	4	20	80	100	4	0	4	64
4.2	Common Course – IV	Banking and Insurance	4	20	80	100	4	0	4	64
4.3	CFD4B08	Garment Finishing and clothing care	3	15	60	75	4	0	4	64
4.4	CFD4C07	Apparel Production and Quality Control	3	15	60	75	4	0	4	64
4.5	CFD4PR01(Pr)	Mini Project– Garment Construction	2	15	60	75	0	3	3	48
4.6	CFD4B09 (P)	Advanced Pattern Making and Grading – Lab	2	15	60	75	0	3	3	48
4.7	CFD4 C08 (P)	Needle Craft - Lab	2	15	60	75	0	3	3	48
4.8		Ability Enhancement Course	4							
Semester IV Total			20			575				

Students should undergo One week internship in boutique or garment unit – Report should be submitted

Job Roles

Hand embroider
Measurement Checker
Quality Assessor
Production Supervisor Sewing
Fabric checker

SEMESTER V

C. No	Course Code	Course Name	Credit	Marks			Hours/Week			Total Hrs /Sem
				Int	Ext	Tot	L	P	Tot	
5.1	CFD5B10	World Costumes	3	15	60	75	4	0	4	64
5.2	CFD5B11	Fashion Merchandising, Marketing and Management	4	20	80	100	4	0	4	64
5.3	CFD5D01	Industrial Management	3	15	60	75	3	0	3	48

5.4	CFD5B12 (P)	Fashion Accessories Making - Lab	2	15	60	75	0	3	3	48
5.5	CFD5B13 (P)	Garment Assembling-Women's Wear – Lab	4	20	80	100	0	5	5	80
5.6	CFD5B14 (P)	Basic Draping - Lab	2	15	60	75	0	3	3	48
5.7	CFD5B15 (P)	Computer Aided Designing - Lab (CAD)	2	15	60	75	0	3	3	48
Semester V Total			20			575				

Job Roles		Pattern Master / Pattern Cutter Asst. Merchandiser Fashion Designer Advanced Pattern Maker Export Assistant
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SEMESTER VI

C. No	Course Code	Course Name	Credit	Marks			Hours/Week			Total Hrs/Sem
				Int	Ext	Tot	L	P	Tot	
6.1	CFD6B16	Apparel Costing	4	20	80	100	4	0	4	64
6.2	CFD6B17	Fashion Retail and Visual Merchandising	4	20	80	100	4	0	4	64
6.3	CFD6B18	Personal Grooming and Stylizing	3	15	60	75	4	0	4	64
6.4	CFD6B19 (P)	Garment Assembling-Men's Wear -Lab	4	20	80	100	0	5	5	80
6.5	CFD6B20 (P)	Portfolio	3	15	60	75	0	4	4	64
6.6	CFD6PR02(Pr)	Project	2	15	60	75	0	4	4	64
Total			20			525				
Grand Total			120			3400				

Job Roles		Pattern Master Visual Merchandiser / Merchandiser Retail Store Manager Fashion Designer Assistant Production Manager Fashion Stylist Fashion Consultant
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B.Sc COSTUME AND FASHION DESIGNING

Programme Structure

SEMESTER 1

CFD1B01 TEXTILE MANUFACTURE

Course No: 1.4

Course Code: CFD1B01

Course Name: Textile Manufacture

Credits: 3

Hours per week: 4

Total hours: 64

Course Objectives

- To create awareness regarding the variety of fibers
- To acquire knowledge about fiber, yarn and fabric science
- Consider the importance of fiber properties
- Understanding the process of yarn spinning process and fabrics manufacturing
- Understanding the process of weaving and woven fabrics
- To acquire knowledge about knitting and non woven fabrics

Course Outline

Module 1

Introduction To Textile Fibers: Definition of fibers, Classification of fibers-Natural and Manmade, Properties of textile fibres- primary and secondary.

15 hours

Module II

Manufacturing Process And Properties Of Different Fibers- Cotton, Jute, Silk, Wool, Rayon, Nylon, Polyester. Manmade Fibers spinning methods: Dry Spinning, Melt Spinning, Wet Spinning.

15 hours

Module III

Yarn Manufacturing Process: - Objectives, working principles of blow room ,carding, drawing, combing, Spinning -definition & types of spinning , working principles of ring spinning ,rotor spinning, airjet spinning Sewing threads, properties

10 hours

Module IV

Texturisation: Definition, properties, types & uses. Yarn Numbering System- Direct and Indirect system.

10 hours

Module V

Fabric Construction Techniques -weaving, knitting, non woven- definition, Comparisons of basic properties of woven & knitted fabric, Important features of warp and weft knitting, types of non-woven.

10 hours

Reference Books

- Textile fiber to fabric, Barnard P. Corbman, MacGraw - Hill International.
- Textiles Sara. J. Kadoiph and Anna L Langford, Prentice Hall.

CFD1C01 – BASICS OF FASHION AND DESIGN

Course No: 1.5

Course Code: CFD1C01

Course Name: Basics of Fashion and Design

Credits: 2

Hours per week: 3

Total hours: 48

Course Objectives

- Understanding the concepts related to the various fashion processes
- Identifying different art medias and its application
- To create an overview of elements and principles of design

Course Outline

Module I

Introduction to Elements of Design - space, line, shape, form, colour and texture, Importance in designing : Principles of design- proportion, balance-formal, informal and radial, unity, emphasis, rhythm and harmony.

10 hours

Module II

Functions of Lines.- Silhouettes. - Different types of lines & its characteristics.- Use of line in clothing according to body shapes.- Optical illusions created by various combination of lines.

11 hours

Module III

Colour theory- Prang colour system & Munsell Colour Dimensions- Hue, Value and Chroma
Colour harmony/sceme, Seasonal colours , Psychology of colors.

11 Hours

Module IV

Fashion Terminologies-Fashion, Apparel, style, trend, bespoke, runway, Haute couture, Prêt-à-Porter, Ensemble, Off-the-rack, fad, classic, Hemline, Label, accessories, advertising, alta moda, balance, boutique, classic, collection, CAD, CAM, CIM, consumer, custom made, designer, fashion retailing, grading, market, silhouette and texture.

8 hours

Module V

Fashion theory – Fashion Cycle, **Adoption Theories of fashion**- trickle up, trickle down, trickle across, Century changes in 20th century fashion: Haute couture by Charles Frederick Worth, Victorian fashion, flappers, Punk style, hippie style, hip hop fashion - gothic fashion -street style fashion.

8 hours

Reference Books:

- Elements of fashion & apparel design
- Elements of design and apparel design., Sumathy. G. New Age International Pvt. Ltd, 2002.
- Art & Fashion in Clothing Selection, M.C. Gimsely & Harriot T, Nova State Uty Press, Newyork
- Fashion From Concept To Consumer., Gini Stephens Frings, Prentice Hall.

CFD1B02 (P) - PATTERN MAKING I - Lab

Course No: 1.6

Course Code: CFD1B03 (P)

Course Name: Pattern Making I - Lab

Credits: 2

Hours per week: 3

Total hours: 48

Course Objectives

- To provide basic skills regarding pattern drafting.
- To analyze the designs and selection of pattern making principles

Course Outline

Module I

Basic principles of flat pattern making – tools, industrial dress form, workroom terms and definitions. How to take body measure- Standard measurement UK and US chart for children, women and men – conversion chart

10 hours

Module II

Draft basic bodice blocks- front and back for women and children- dart and Dart less slopers. 16 hours

Module III

Draft basic sleeve block for women and children- Draft basic skirt block 12 hours

Module IV

Draft basic Trouser block 10 hours

Patterns are to be developed in full size.

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

Reference Books:

1. Pattern making for Fashion Design .,Armstrong &Joseph.H., Harper & Row Publications.
2. Designing Apparel Through the Flat Pattern ., E. Rolfo Kopp &Zelin., Fairchild Publications.
3. How to Draft Basic Patterns, E. Rolfo Kopp &Zelin ., Fairchild Publications.
4. Matric pattern cutting for men's wear, Winifred Aldrich., Wiley Black well
5. Handbook of fashion designing, Ritu Jindal, S. Malhan, Mittal publications, New Delhi

CFD1C02 (P) - BASIC SKETCHING - Lab

Course No: 1.7

Course Code: CFD1B02 (P)

Course Name: Basic Sketching - Lab

Credits: 2

Hours per week: 3

Total hours: 48

Course Objectives

- To study the basics of drawing and illustration
- Learning the usage of various art mediums and colour theories
- To learn the basics of fashion illustration

Course Outline

Module I

Introduction to pencil sketching: types of pencil – graphite charcoal hard and black- drawing different shapes and forms - Two & three dimensional forms - Object drawing and perspective view drawings,

enlarging and reducing motifs-shading and hatching -Still life drawings –Introduction: poster paints, watercolors, colour pencils

6 hours

Module II

Elements of Design :Lines - types –Straight – vertical-horizontal-diagonal-Zigzag, Dotted, Dashed opaque-curved-spiral-arabesque- parabola-serpentine-Colour – colour wheel and colour dimensions, tints-tones and shades-colour harmony- relative and contrast-Shape – geometric and natural -pencil, oil pastels and water colour-Texture creation – different medium -pencil, oil pastels and water colour. Free hand drawing techniques & related exercises.Free hand practice of brush & pencil.

12 hours

Module III

Introduction to illustration : Stick figure drawing- Basic 8 head Croqui -Basic 10 head Croqui- ¾ pose, side pose & back poses– movements- flesh figure 8 head

10 hours

Module IV

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

10 hours

Module V

Construction Details: Necklines- square,-round,- scalloped,- sweet heart,- scoop,- boat –assymetrical Collars- Peter pan-, mandarin-, shirt - roll collar Sleeves- plain,- puff,- leg o mutton-, bishop, -cap,- bell, -circular, -kimono - raglan - skirts- basic skirt- a line- layered- circular-godet- pants - coats, Fashion accessory drawings :- bags- shoes- goggles - belts (2 each)

10 hours

Reference Books:

- Garthe.M –Fashion and Color- Rockport publishers-Massachusetts
- Essential Fashion Illustration Colour + Medium,Rockport Publishers, Gloucester, MA
- Illustrating Fashion –Kathry McKinley, Blackwell Science
- Figure Drawing For Fashion Design - ElisabettaDrudi, The pepin.
- Julian Seaman, Foundation in fashion design and illustration

SEMESTER II

CFD2B03– FABRIC CONSTRUCTION TECHNIQUES

Course No: 2.4

Course Code: CFD2B03

Course Name: Fabric Construction Techniques

Credits: 3

Hours per week: 4

Total hours: 64

Course Objectives

- To create awareness regarding the fabric construction techniques
- To acquire knowledge about various types of looms.
- Understanding the process of weaving and knitting
- Consider the importance of color in fabric construction.

Course Outline

Module 1

Loom- Definition and types- pit loom, handloom, powerloom, shuttle and shuttleless loom, dobby loom and jacquard loom.

14 hours

Module II

Woven Fabric Formation – Objectives and working principles of weaving, preparatory process- cone winding, cheese winding, pirn winding, warping , sizing.

16 hours

Module III

Elements Of Woven And Knitted Structure – Basic weaves and its derivatives, fancy weaves – honeycomb ,pile, extra warp and weft figure, leno,and double cloth. Weft knitting- types/names, and end uses, warp knitting- types/names and end uses. Comparison of woven and knitted fabrics

12 hours

Module IV

Non Wovens-Definition and end uses of dry laid non woven, wet laid non woven-melt blown technology-spun bond technology and felts.

8hours

Module V

Colour Theory – Light and pigment theory, colour combination/modification and application, colour and weave/knit effect.

14 hours

Reference Books:

1. Watsons Textile Design and Colour, Z Grosicki, Wood head publishing Ltd.
2. Textiles Sara. J. Kadoiph and Anna L Langford, Prentice Hall.
3. Textiles Andrea Wynne, Macmillan London.

CFD2C03– APPAREL MACHINERY AND EQUIPMENTS

Course No: 2.5

Course Code: CFD2CO3

Course Name: Apparel Machinery and Equipments

Credits: 2

Hours per week: 3

Total hours: 48

Course Objectives

- To create awareness regarding the apparel Industry and types
- To acquire knowledge about various departments of an apparel unit
- Understanding the apparel machineries and the apparel industry equipments
- To understand the stitch classes

Course Outline

Module I

Introduction to apparel industry, various types of garment manufacturing units- domestic and exports: organizational charts of garment unit, various department of garment unit.

5 Hours

Module II

Marker making- Definition, Types, Plotting, Digitizing-**Spreading-** Methods of spreading- manual, spreading carriage and automatic spreading machine-**Cutting machines:** parts and working of Straight knife, Round knife, Band knife, Notches, Drills ,Thread Makers and Die Cutting-**Computerised cutting machines** - Air jet, laser beam cutting, water jet, plasma cutting- Bundling and ticketing.

14Hours

Module III

Sewing machine fundamentals- the casting, bed types – flat, cylinder, feed off the arm, post, raised, lubricating systems- **Stitch forming mechanisms-** various stitch forming parts, thread control devices, lower stitch forming devices, material feeding systems- the presser foot, the throat plate and the feed mechanisms- feed dog, types of feed mechanisms in sewing machine - drop feed, differential feed, needle feed or compound feed, unison feed, puller or roller feed and cup feed, speed potential.

17 Hours

Module IV

Special Sewing Machines- over lock, flat lock, Blind Stitching, Buttonholes, Button Sewing, Bar-tack and Computerized sewing machine.-**Sewing machine needles-** parts of the needle, special needles, round point needle, cutting or leather point needle, needle size.

Module V

Stitch classes- (100- 600): **Seam classes-** super imposed seam class, flat seam class, bound seam class, lapped seam class.- **Pressing:** elements of pressing, types of pressing equipment, pressing accessories.

6 Hours

Reference Books :

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

CFD2B04 (P)– FABRIC ANALYSIS - LAB

Course No: 2.6

Course Code: CFD2B04(P)

Course Name: Fabric Analysis - Lab

Credits: 2

Hours per week: 3

Total hours: 48

Course Objectives

1. To create awareness regarding the fabric testing techniques
2. To acquire knowledge about various types of testing instruments.
3. Understanding the process of analyzing fabric(woven and knitted).

Course Outline

1. Crimp Testing
2. Count Testing
3. Twist Testing
4. Stiffness Testing
5. Crease Testing
6. Abrasion Testing
7. Drape Testing
8. Identification Of Woven And Knitted Structures

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

Reference:

- J.E BOOTH, Principles of Textile Testing, C B S Publishers and Distributors, New Delhi.

CFD2C04 (P)– BASIC SEWING TECHNIQUES - Lab

Course No: 2.7

Course Code: CFD2C04 (P)

Course Name: Basic Sewing Techniques - Lab

Credits: 2

Hours per week: 3

Total hours: 48

Course Objectives

4. To create awareness regarding the sewing machine and its parts.
5. Understanding the basics techniques of making seams and seam finishes.
6. Understanding the various components of garments.

Course Outline

Module I

Sewing Machine And Its Parts - Seams: Plain seam, Top stitch seam, Welt seam, Lapped seam, Slot Seam, Flat and felt Seam, French seam -SEAM FINISHES-Pinked finish, edge stitched finish, Double stitch finish, Herringbone Finish.

Module II

Fullness– **Darts** -:standard, two- point, **Tucks**: - pin, cross, group, scalloped. **Pleats**: -knife, box, inverted box pleat, pinch, **Gathers**: - gathering by hand, gathering by machine, gathering by elastic. **Ruffles**: - double, circular. **Godet**

10 Hours

Module III

Plackets- continuous bound placket, bound and faced (2-piece) placket, Zipper plackets-standard, invisible, Kurthaplacket.

8 Hours

Module IV

Pockets – Patch pocket, patch pocket with flap, Bound Pocket, front hip Pocket Inseam pocket

8Hours

Module V

New born set- panties, jabla, bib, napkin

10 Hours

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

Reference:

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

SEMESTER III

CFD3A11 BASIC NUMERICAL METHODS

Course No: 3.1

Course Code: CFD3A11

Course Name: Basic Numerical Methods

Credits: 4

Hours per week: 4

Total hours: 64

Course Objectives:

- To enable the students to acquire knowledge of numerical equations, matrices progressions, financial mathematics and descriptive statistics
- At the end of this course, the students will be able to understand numerical equations, matrix, progression, financial mathematics, descriptive statistics and their applications.

Module I:

Numerical expressions and Equations: Simultaneous linear equations (upto three variables), Quadratic equations in one variable-factorization and quadratic formula
(10 Hours)

Module II

Matrices: introduction - type of matrices –trace and transpose and determinants - matrix operations – adjoint & inverse–rank- solving equations by matrices: Cramer’s Rule(not more than 3 variables).
(15 Hours)

Module III

Sequence, Series and Progression : Concepts and differences - Arithmetic progression- nth term and sum of n terms of an AP - Insertion of Arithmetic means in AP - Geometric progression- ‘n’th term and sum of n terms of an GP - Insertion of Geometric Mean in GP - Harmonic progression.
(20 Hours)

Module IV

Interest and Time value : *Concept* of interest-Types of interest: Simple interest and compound interest – nominal, real and effective rate of interest. Future value and Present Value; Annuity and Perpetuity . Computing future and present values of annuity (regular and immediate) - multi and growing period perpetuity. Compound annual growth rate- computation of Equated Monthly Instalments (EMI).
(15 Hours)

Module V:

Descriptive Statistics: Measures of Central Tendency – Mean : Arithmetic mean , Geometric mean and Harmonic Mean- Median ,Mode and other position values. Measures of Dispersion: mean

deviation, quartile deviation, standard deviation and coefficient of variation. Measures of Skewness and Kurtosis.

(20 Hours)

Reference Books

1. Business Mathematics and Statistics- N G Das & J K Das (Tata McGraw Hill)
2. Basic Mathematics and its Application in Economics – S. Baruah (Macmillan)
3. Mathematics for Economics and Business – R. S. Bhardwaj (Excel Books)
4. Business Statistics – G. C. Beri (Tata McGraw Hill)
5. Fundamentals of Statistics – S.C.Gupta (Himalaya Publishing House)
6. SP Gupta ,Statistical Methods, Sultan Chand
7. Dinesh Khattar-The Pearson guide to quantitative aptitude for competitive examinations.
8. Dr. Agarwal.R.S– Quantitative Aptitude for Competitive Examinations, S.Chand &Co. Limited.
9. Abhijit Guha, Quantitative Aptitude for Competitive Examinations, Tata Mcgraw Hill,

(Theory and problems may be in the ratio of 20% and 80% respectively. An over view of the topics is expected and only simple problems shall be given)

CFD3A12 PROFESSIONAL BUSINESS SKILLS

Course No: 3.2

Course Code: CFD3A12

Course Name: Professional Business Skills

Credits: 4

Hours per week: 4

Total hours: 64

Course Objectives

- To update and expand basic Informatics skills of the students.
- To equip the students to effectively utilize the digital knowledge resources for their study.

Course Outline

Module I

Professionalism : Meaning -Definition – Characteristics - Traits and Qualities of a good professionals- Professionalism in business - Professional Skills: important soft skills for business success- Professionalism in Communication: Verbal Communication: Professional Presentation -- Different Presentation Postures- Written Communication: Email - Significance of Email in business – Email etiquette: format - rules – dos and don'ts - Technical Documentation: Standards – Types

(15 Hours)

Module II

E-Learning :Introduction of electronic learning - benefits and drawbacks of e-Learning - Online education - Digital age learners - Knowledge resources on internet - E-books, Audio, Video and other means for e-learning- Introduction to e-content development and tools - Online libraries – MOOCs - The e-Learning as a service Industry - major technologies used in e-earning- different approaches for e-Learning delivery - E-learning in India

(12 Hours)

Module III

Business Data Analysis : Features of New Generation Computers – Concept of data analysis – Business Data Analysis – Data Analyst – Types of analysts - organisation and source of data, importance of data quality, dealing with missing or incomplete data- Social Networking Analysis – Big Data Analysis - Role of Data Scientist in Business & Society - Role of Artificial Intelligence and Intelligent Agents in e-business - Ethical and Legal considerations in Business Analytics

(18 Hours)

Module IV

Socio_Cyber Informatics: IT and society - Digital Divide – Digital natives-Cyber space- New opportunities and threats - Cyber ethics - Cyber crimes -Types - Cyber Laws –Organisations related with cyber laws-Cyber addictions - Information overload - Health issues - e-waste and Green Computing –Recent E-governance initiatives in India (15 Hours, 15 marks)

Module V

Digital Marketing : Introduction to Digital marketing Environment –meaning & Concept – Need for digital marketing – Advantages and disadvantages of digital marketing -Trends in digital marketing-Types of digital marketing – Business models in digital marketing Business to Business (B2B), Business to Customer (B2C), Customer to Customer (C2C), Business to Employees (B2E), Business to Government (B2G) - Online advertising - types of online advertising. Top e-commerce websites around the world and its scenario in India. PPC (Pay Per Click) advertising – Search engine Analytics – search engine ads – social media channels and ads

(20 Hours)

References Books:

1. Professional Business Skills – Lee Pelitz 2nd Edition
2. Peter Norton, Introduction to Computers, Tata McGraw Hill Private Limited, New Delhi, 2009.
3. Alan Evans, ITL ESL, Leslie Lampert, Dolores Etter, Darren George, Kenneth C Laoudon, Gary Rogers, Rainer Handel, INFORMATICS -Technology in Action, Pearson Education, Delhi, 2009.
4. V.Rajaraman, Introduction To Information Technology, PHI Learning Private Ltd,New Delhi, 2009.
5. Daniel Minoli&EmmaMinoli, Web Commerce Techny Hand Book, Tata McGraw Hill, Delhi, 2009
6. Godfrey Parkin,DigitalMarketing:Strategies for online success,New Holland publishers Ltd,2009
7. Damian Ryan,Understanding Digital marketing:Marketing strategies for Engaging the Digital generation,Kogan page,3rd Edition,2014

7. Jonah Berger, Contagious Why things catch on, Simon & Schuster, 2013
8. Turban E, Armson, JE, Liang, TP & Sharda, Decision support and Business Intelligence Systems, 8th Edition, John Wiley & Sons, 2007
9. Frank J. Ohlhorst, Big Data Analytics, 1st Edition, Wiley, 2012.
10. Efraim Turban, Ramesh Sharda, Jay Aronson, David King, Decision Support and Business Intelligence Systems, 9th Edition, Pearson Education, 2009
11. Microsoft Office 2007 Business Intelligence - Reporting, Analysis, and Measurement from the Desktop, Doug Harts, TATA McGraw-Hill Edition, 2008
12. Data Mining for Business Intelligence: Concepts, Techniques, and Applications in Microsoft Office Excel with XLMiner, Galit Shmueli, Nitin R. Patel, Peter C. Bruce, Wiley Publication, 2010
13. Data Mining: Concepts and Techniques”, Morgan Kaufmann Publication, 3rd Edition, 2011
Data Science for Business – What you need to know about data mining and data-analytic thinking, Foster Provost, Tom Fawcett, O’ Reilly Media Publication, 2013

CFD3B05 TRADITIONAL INDIAN TEXTILES & COSTUMES

Course No: 3.3

Course Code: CFD3B05

Course Name: Traditional Indian Textiles & Costumes

Credits: 3

Hours per week: 4

Total hours: 64

Course 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

Introduction to history of Indian textiles, Techniques of textile decoration- study on traditional dyed fabrics, printed fabrics and embroidered fabrics.

10Hours

Module II

Textiles of Western region –Gujarat- Embroidery style: Mochi, Kutch work, appliqué, -Tie & Dye, Bhandini, Leharia and Patola, Block printing- Ajarakh, Maharashtra: Paithani , Mashru & Himru. Textiles of Southern region-Andhra Pradesh: Kalamkari, Tamil nadu: Kancheepuram silks, Fabrics of Kerala, Karnataka: Banjara Embroidery.

20Hours

Module III

Textiles of Eastern region- W.Bengal: Dacca sarees, Baluchar Buttedar and Kanthas, Orissa: Sambalpuri Ikat & Saktapar/Pasapali. Textiles of Northern region- Himachal Pradesh- chamba Rumal,

Jammu & Kashmir: Kashmiri embroidery, shawl weaving, Punjab- phulkari, Rajasthan: Block Printing- bagru ,sanganeri -Uttar Pradesh: Brocades of Varanasi, chikkan work. 15Hours

History of Indian costumes

Module IV :

Costumes and accessories during- Indus valley, Vedic period, Mauryan&Sunga Period and Satavahana period 12Hours

Module-V :

Costumes and accessories during- Kushan period, Gupta period and Mughal Period. 7Hours

Reference Books :

- Indian Tie-Dyed Fabrics., Volume IV of Historic Textiles Of India., Merchant: Celunion Shop Traditional Indian Textiles., John Gillow/Nocholas Barnard, Thames & Hudson.
- Indian Costume, Coiffure And Ornament., SachidhanandSahay, Coronet Books.
- Fashion Styles of Ancient India, R O Mohapatra, B.R.Publishing Corporation.
- Costumes Of The Rulers Of Mewar, Pushpa Rani Mathur, South Asia Books.
- Costumes And Ornaments Of Chamba, K P Sharma/S M Sethi, Indus Publishing Co.
- Indian Costume, G S Ghurye, Popular Prakashan
- Textiles ,costumes And Ornaments Of The Western Himalaya. O. C Handa, Vedamsebooks, New Delhi.

CFD3C05 TEXTILE PROCESSING

Course No: 3.4

Course Code: CFD3C05

Course Name: Textile Processing

Credits: 3

Hours per week: 4

Total hours: 64

Course Objectives

- To study the different processing methods in textiles
- To study about textile dyeing & printing techniques.

Course Outline

Module I

Preparatory process in wet processing: Sequence of processes used in Textile wet processing for cotton, polyester and cotton blend, Singeing, De sizing- definition, types and methods, mercerization.

Scouring- definition, types and methods, Bleaching- types of bleaching agents, advantages and disadvantages of Hydrogen peroxide, Sodium hypochlorite and calcium hypochlorite.

15 hours

Module II

Dyeing: Different types used for cellulosic, protein and synthetic fibres- Dyeing methods of cellulosic fibre with reactive and vat dye, dyeing of polyester with disperse dyes, hank dyeing, beam dyeing, jigger dyeing, winch dyeing , padding mangle, natural dyes.

13hours

Module III

Dyeing Machines: hank dyeing, beam dyeing, jigger dyeing, winch dyeing , padding mangle. Natural dyes.

6 Hours

Module IV

Printing: Styles of textile printing, steaming and curing.Printing of cellulosic fibre with reactive dyes- Polyester with disperse dyes, printing of synthetics. Roller printing, Screen printing, Tie and Dye, Flock Printing, Transfer Printing, Sublimationtransfer printing.

15 hours

Module V

Fabric and Garment Finishing: Basic and functional finishes- Basic finishes-brushing, shearing, singeing, sanforisation, carbonizing, crabbing. Functional finishes- Water repellency, Water proofing, Flame retardant, Anti shrinkage ,Glazing, Embossing, and Moireing. Durable- press finish, wash n wear.

15 hours

CFD3B06 FASHION ILLUSTRATION - LAB

Course No: 3.5

Course Code: CFD3B06

Course Name: Fashion Illustration - Lab

Credits: 2

Hours per week: 3 Total hours: 48

Course Objectives

- To familiarize the students to design on full figure croquies 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.

Course Outline

Module I

Croqui analysis: analyzing figures from fashion magazines -Women's wear designs (Formal, Casual & Ethnic)- Lingerie drawings on fashion figures- 2 types

10 Hours

Module II

Introduction to fashion details:various silhouettes (6no.) -Various Hair styles (Indian - 2no. & western - 3no.)
10 Hours

Module III

Color rendering for the following fabrics: Denim, Satin, Velvet, Chiffon and Lace.-Introducing color rendering for the following: Solids, Prints, Checks, Stripes and Florals
14 Hours

Module IV : Introduction to male figure-Men’s casual /formal wear designs

6 Hours

Module V

Development of kid’s figure, -Kid’s play wear/school uniform designs-Introduction to flat sketches
8 Hours

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

References:

1. ElizabettaDrudi&TizianaPaci(2010), Figure Drawing For Fashion Design, Netherlands, Pepin Press.
- 2 Kathryn McKelvey, (2006), Fashion Source Book, United States, Wiley –Blackwel Publishers.
3. Patrick John Ireland, (2003), Encyclopedia of fashion details, London, Batsford Publishers.
4. BinaAbling, (2008), Fashion Sketch Book, 4th edition, New York, Fairchild Publications Inc.
5. BinaAbling, (2001), Fashion Rendering with Color, United States, Prentice Hall Publications.
6. Colin Barnes, (1988), The Complete Guide to Fashion Illustration, US, Northlight Books.
7. Kathryn Mckelvey&Janie Munslow,(2007), Illustrating Fashion, US, Wiley-Blackwell Publishers.

CFD3C06 TEXTILE PROCESSING - LAB

Course No: 3.6

Course Code: CFD3C06

Course Name: Textile Process - Lab

Credits: 2

Hours per week: 3

Total hours: 48

Course Objectives

- To study the different processing methods in textiles
- To obtain a practical knowledge on textile dyeing & printing techniques.

Course Content

1. Identification of different fibres.
2. Scouring of cotton.
3. Bleaching of cotton.

4. Mercerization of cotton.
5. Dyeing of cotton with direct dye.
6. Dyeing of cotton with reactive hot and cold brand dye.
7. Dyeing of cotton with vat dye.
8. Dyeing of cotton with sulphur dye.
9. Printing on cotton using block, stencil, screen, resist method

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

References:

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

CFD3B07 PATTERN MAKING - II - LAB

Course No: 3.7

Course Code: CFD3B07

Course Name: Pattern Making- II - Lab

Credits: 2

Hours per week: 3

Total hours: 48

Course 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

Course Content

Module I

Dart manipulation- slash and spread method and pivot and transfer method, **Darts into style lines** – classic and armhole princess line.

10Hours

Module II

Variations of the basic sleeve- cap sleeve, puff sleeves circular sleeve, petal sleeve, leg-o-mutton sleeve, bishop sleeve, **Sleeve bodies combination-** Kimono sleeve, raglan sleeve .

10 Hours

Module III

Skirt variations :- A- line skirt, gathered skirt, Gored skirt- 4 gore, Pegged skirt , Skirt with yoke, Full circle skirt, Warp skirt, Culotte

10Hour

Module IV

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

10Hours

Module V

Trouser Design variations – pleated trouser,pant with flares, shorts, bermudas.

8 Hours

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

Reference:

1. Patternmaking for fashion design : Armstrong, Helen Joseph, Harper& Row Publications
2. Designing apparel through the flat pattern: E. Rolfo Kopp,&Zelin, Fairchild publications.
3. How to draft basic patterns: E. Rolfo Kopp,&Zelin, Fairchild publications.
4. Garment technology for fashion designers: Gerry cooklin, B
5. Handbook of fashion designing, Ritu Jindal, S. Malhan, Mittal publications, New Delhi

SEMESTER IV

CFD4A13 ENTREPRENEURSHIP DEVELOPMENT

Course No: 4.1

Course Code: CFD4A13

Course Name: Entrepreneurship Development

Credits: 4

Hours per week: 4

Total Hours 64

Course Objectives

- To familiarize the students with the concept of entrepreneurship.
- To identify and develop the entrepreneurial talents of the students
- To generate innovative business ideas in the emerging industrial scenario.

Course Outline

Module 1

Concepts of entrepreneur: Entrepreneur- Definitions - Characteristics of entrepreneur-Classification of entrepreneur-Entrepreneurial traits -Entrepreneurial functions - role of entrepreneurs in the economic

development - Factor effecting entrepreneurial growth – Entrepreneurship – Meaning – definition - Entrepreneur vs Intrapreneur - Women Entrepreneurs - Recent development – Problems - Entrepreneurial Development Programmes - Objectives of EDP - Methods of training - Phases of EDP.
(10Hours)

Module 2

Institutional support and incentives to entrepreneurs- Functions of Department of Industries and Commerce (DIC) - Activities of Small Industrial Development Corporation (SIDCO)-Functions of National Small Industries Corporation(NSIC)- Functions of Small Industries Development Bank of India (SIDBI) - Khadi Village Industry Commission (KVIC)-Small Industries Service Institute (SISI)- Functions and services of Kerala Industrial Technical Consultancy Organisation (KITCO)-Activities of Science and Technology Entrepreneurship Development Project (STEDP)-Strategies of National entrepreneurship Development Board (NEDB) -Objectives of National Institute for entrepreneurship and small business development (NIESBUD) - Techno park-Functions of techno park Incentives-Importance- Classification of incentives – Subsidy - Types of Subsidy
(12 Hours)

Module 3

Micro Small and Medium Enterprises- Features- Objectives- Importance- Role of SME in the economic development- MSME Act 2006- Salient features- Credit Guarantee Fund Trust Scheme for MSMEs - Industrial estates-Classification-Benefits- Green channel- Bridge capital- Seed capital assistance-Margin money schemes –Single Window System- Sickness- Causes –Remedies-Registration of SSI
(12 Hours)

Module 4

Setting up of Industrial unit-(Only Basic study) Environment for Entrepreneurship – Criteria for selecting particular project- Generating project ideas-Market and demand analysis-Feasibility study- Scope of technical feasibility- Financial feasibility- Social cost benefit analysis-Government regulations for project clearance-Import of capital goods- approval of foreign collaboration-Pollution control clearances- Setting up of micro small and medium enterprises-Location decision- Significance.
(15 Hours)

Module 5

Project Report - Meaning-Definition - Purpose of project reports-Requirements of good report - Methods of reporting - General principles of a good reporting system - Performa of a project report - Sample project report. (The preparation of sample project report shall be treated as an assignment of this course).
(15 Hours, 15 marks)

Books Recommended:

1. Shukla M.B. Entrepreneurship and small Business Management, Kitab Mahal Allahabad.
2. Sangram Keshari Mohanty, Fundamentals of entrepreneurship, PHI, New Delhi.

3. Nandan H. Fundamentals of Entrepreneurship, PHI, NewDelhi.
4. Small-Scale Industries and Entrepreneurship, Himalaya Publishing ,Delhi
5. C.N.Sontakki, Project Management, Kalyani Publishers, Ludhiana.
6. Sangam Keshari Mohanty. Fundamentals of Entrepreneurship, PHI, NewDelhi
7. Peter F. Drucker- Innovation and Entrepreneurship.
8. Vasanth Desai, Small Business Entrepreneurship, Himalaya Publications.
9. MSME Act 2006.

CFD4A14 BANKING AND INSURANCE

Course No: 4.2

Course Code: CFD4A14

Course Name: Banking And Insurance

Credits: 4

Hours per week: 4

Total Hours : 64

Course Objectives:

- To enable the students to acquire knowledge about basics of Banking and Insurance.
- To familiarize the students with the modern trends in banking.

Course Outline

Module 1

-Introduction to Banking : Meaning and definition - Origin and development of banking –Customer of a bank - Structure of banking in India - Banks and economic development -Functions of commercial banks (conventional and innovative functions) - Central bank RBI – Functions - Emerging trends in banking.

- Activity: List out the name of banks as per their different category
- Assignment: Procedure for creating an account in a bank

(10 Hours)

Module 2

Negotiable Instruments : Definition - Characteristics - Types - Parties to negotiable instruments - Cheques - Types of cheques - Crossing of cheques - Drafts - Cheque vs. Draft - Endorsement - Significance - Regularity of endorsement - Liability of endorser -Electronic payments.

Activity / Assignment:

- Writing of cheque , writing of challan for Demand Draft
- Procedures for a Bank Loan.

(10 Hours)

Module 3

E-Banking-centralized online real time electronic banking (CORE)-Electronic Clearing service (ECS) - Electronic Fund Transfer - Real Time Gross settlement (RTGS)—National Electronic Fund transfer(NEFT)-society for worldwide interbank financial telecommunication(SWIFT) - E-cheque - Any Time Money - ATM.s- Credit card - Debit card-smart card - Internet banking - mobile banking - Tele-banking - financial inclusion - recent initiatives in financial inclusion.

Activity / Assignment:

- Chelan filling for RTGS, EFT and NEFT
- Different types of Cards, the Procedure for application of different cards and the Procedure for blocking cards
- Procedure for application or activation of net banking, m-banking and tele-banking.

(15 Hours)

Module 4

Introduction to insurance: Concept - need of insurance-insurance as a social security tool - insurance and economic development-principles of insurance - various kinds of insurance - life and general insurance (fire, marine, medical, personal accident, property and motor vehicle insurance) - features-life insurance Vs. general insurance.

- Activity / Assignment: List out different names of insurance companies

(15 Hours)

Module 5

Life insurance-law relating to life insurance-general principles of life insurance contract, proposal and policy—Assignment and nomination - title and claims - general insurance - law relating to general Insurance - IRDA - powers and functions - insurance business in India.

- Case Study: Preparation of a proposal for life insurance and how to claim insurance in case of any accident, death or damage.

(14 Hours)

Reference Books:

1. . Jyotsna Sethi and Nishwan Bhatia's *Elements of Banking and Insurance*, published by Phi Learning Private Ltd.
2. Indian Institute of Bankers (Pub) Commercial Banking Vol-I/Vol-II (part I& II)Vol- III.
3. Varshaney: Banking Law and Practice.Sultan Chand
4. Dr. P. Periasamy: Principles and Practice of Insurance Himalaya Publishing House, Delhi.
5. Inderjit Singh, RakeshKatyal& Sanjay Arora: Insurance Principles and Practices,Kalyani Publishers, Chennai.
6. M.N. Mishra: Insurance Principles and Practice, S. Chand & Company Ltd, Delhi.
10. G. Krishnaswamy : Principles & Practice of Life Insurance
11. Kothari &Bahl: Principles and Pratices of Insurance
12. B.S. Khubchandani, "Practice and Law of Banking",MacMillan India Ltd
13. K.C. Nanda," Credit Banking", Response Book, Sage Publication,

CFD4B08 GARMENT FINISHING AND CLOTHING CARE

Course No: 4.3

Course Code: CFD3B08

Course Name: Garment Finishing And Clothing Care

Credits: 3

Hours per week: 4

Total Hours: 64

Course Objectives

- To make students aware about the finishes given to the garments in industries.
- To learn about the care and storage of each fabric type.

Course Outline

Module I

Water : Determination of Hardness, Treatment of softening water. WASHING: Study of soaps and detergents-its difference, principles of laundering, laundry equipment, different methods of washing-application of friction by rubbing and scrubbing, study of different types of washing machines-household and industrial.

16Hours

Module II

Whitening And Stiffening Agents- Different types of blues, its application, types, preparation and application of different stiffening agents.

10Hours

Module III

Study Of Stain Removal- Definition of stain and stain removal, method of stain removal for blood, tea, coffee, rust, nail polish, oil and grease, henna, ink, lipstick, perfume and shoe polish.

10Hours

Module IV

Finishing- Ironing-damping, pressing, types and parts of iron, dry Cleaning, Special finishes given to denim-stone wash, acid wash, enzyme wash.

12Hours

Module V

Care And Storage Of Different Fabrics And Garments- Care labels -definition, types and different systems. Storage of cotton, silk, wool, acetate, rayon, nylon, sarees, lingerie, coat, suits, jackets, knitted fabrics.

16Hours

References

1. Fabric Care, NoemiaD'souza, New Delhi
2. Textiles and Laundry, Poonamsinha and Bhavnachopra, NewDelhi.

CFD4C07 APPAREL PRODUCTION AND QUALITY CONTROL

Course No: 4.4

Course Code: CFD4C07

Course Name: Apparel Production And Quality Control

Credits:3

Hours per week: 4

Total hours: 64

Course Objectives

- To teach about production systems in Apparel industry.
- To teach the quality management & systems followed in Apparel industry

Course Outline

Module I

Production Systems in Apparel Industry: Definition, Types, advantages and limitations. Production Control – Objectives – elements of production control system - production preplanning.

12Hours

Module II

Productivity: Definition, measurement. Work Study: Introduction, definition, objectives, steps in work study, Time & Method study: definition, objectives. Inventory Control: Definition, Models of inventory control: EOQ, ABC, VED

14 Hours

Module III

Meaning of quality, testing and standard and their importance in apparel industry – Quality terminologies –,Quality of sewing threads, zippers, fusible interlinings, buttons and fasteners. 4-point system / 10 point system.

14 Hours

Module IV

In process/ online inspection: process, Advantages – On line inspection during spreading, pattern making, cutting, sewing and finishing- ironing.

12 Hours

Module V

Final inspection: Sampling plans and AQL charts – Level of final inspection. A, B and C zones in a garment with respect to defects. Care labelling ISO Standards. Introduction to TQM .

12Hours

References:

1. Apparel manufacturing- Sewn product Analysis, Ruth E.Glock, Grace.I Kunz.
2. Quality assessment of textiles, Karl Ma.
3. Introduction to Clothing Production Management Chuter AJ Blackwell Science 1998
4. Materials Management In Clothing Production David J Taylo

CFD4PR01 (Pr) MINI PROJECT (GARMENT CONSTRUCTION)

Course No: 4.5

Course Code: CFD4PR01 (Pr)

Course Name: Mini project (Garment Construction -Pr)

Credits:2

Hours per week: 3

Total hours: 48

Course Objectives

- To teach the students basic fundamentals of kid's wear.
- To enable students to do the proper layout of paper drafts on the fabric and to make maximum usage of fabric with minimum wastage.

Course Outline

Module I

SKIRTS-Gathered skirt, layered skirt, 'A'-line skirt, pleated skirt, four gored skirt, full circular skirt.
10Hours

Module II

SLEEVES-Set-in-sleeve-plain, puff sleeve, bell sleeve, cap sleeve, circular sleeve, leg-o-mutton sleeve
- Sleeve bodice combination-Kimono sleeve, Raglan sleeve
10 Hours

Module III

COLLARS- Peter pan collar, Chelsea collar, Bishop collar, Sailor Collar, Turtle neck collar, Shawl collar
10 Hours

Module IV

YOKES- Bodice with Yoke (midriff) , Skirt with Yoke.
8Hours

Module V

ROMPER
10 Hours

MINI PROJECT : Frock

All set garments are to be stitched in full size (3 - 5yrs)

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

Reference:

1. Garment Technology for Fashion Designers.,GerryCooklin, Book Link, USA.
2. Sewing for Fashion Design.,Nurie.Relis/Gail Strauss-Reston Publishing Co.

CFD4B09(P) ADVANCED PATTERN MAKING & GRADING – LAB

Course No: 4.6

Course Code: CFD4B09(P)

Course Name: Advanced Pattern Making & Grading - Lab

Credits:2

Hours per week: 3

Total hours: 48

Course 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.

Course Outline

Module- I

Contour guide pattern, The classic Empire- Empire with shirred midriff, off-shoulder designs, Halter.
10Hours

Module- II

Basic Torso Foundation , Dress categories- The three basic dress foundation, Jacket & coat foundation, capes -A- line cape foundation , Hood- contoured Hood foundation,
12Hours

Module-III

History of Grading, sizing survey of the market (Anthropometrical Research), body analysis, Grading terminology. Principles of Grading, Working methods, Introduction to Nest or Stack grade method
8Hours

Module IV

Grading Applications, Basic Bodice Grading-Back & Front, Grading the Basic sleeve, Grading the Basic collar, and basic skirt (one size up and one size, down use size 10 pattern as base pattern)
14Hours

Module V

Fitting & alterations- Definition, Basic principles of fitting techniques, causes of poor fit, principles of pattern alterations, alteration of pattern for irregular figures
4Hours

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

Reference Books

1. Patternmaking for fashion design : Armstrong, Helen Joseph, Harper& Row Publications
2. Grading for the fashion Industry – Patrick.J.Taylor& Martin Shobhen, Neson Thomas Pattern Grading for women’s clothes – Gerry cooklin, Black well science
3. Pattern Grading for men’s clothes – Gerry cookion, Black well science
4. Pattern grading for children’s clothes – Gerry cooklin, Black well science
5. Handbook of fashion designing, Ritu Jindal, S. Malhan, Mittal publications, New Delhi

CFD4C08 (P) NEEDLE CRAFT – LAB

Course No: 4.7

Course Code: CFD4C08(P)

Course Name: Needle craft - Lab

Credits:2

Hours per week: 3

Total hours: 48

Course Objectives

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

Course Outline

Module I

Embroidery - Embroidery tools and techniques, embroidery threads and their classification, selection of threads, needle and cloth, tracing techniques, ironing and finishing of embroidered articles. Basic hand embroidery and their two variations-Running stitch, Back stitch, Stem stitch, Chain stitch, Buttonhole stitch

10Hours

Module II

Basic and two variations of- Lazy daisy stitch , Feather stitch , Herringbone stitch, Knot stitch, Satin stitch

10Hours

Module III

Traditional Embroidery- Origin & application: Kantha, Kausti,Mirror work, Zardosi, Kutch, Chikankari

16Hours

Module IV :

Value added techniques: Quilting , Smoking, Bead work, Sequin work

12Hours

Term Submission: Record which contains work of entire semester.

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

Reference Books

1. Surface design for fabric, Richard M Proctor/Jennifer F Lew, University of Washington Press.
2. Art of embroidery : History of style and technique, LantoSynge,Woodridge
3. The Timeless Embroidery, Helen M, David & Charles.
4. Readers Digest, Complete guide to Sewing,1993,Pleasantville-Nu Gail L,Search Press Ltd.
5. Barbara .S, Creative Art of Embroidery, London, Numbly Pub.group Ltd.
6. Shailaja N, Traditional Embroideries of India., Mumbai APH Publishing.

SEMESTER V

CFD5B10– WORLD COSTUMES

Course No: 5.1

Course Code: CFD5B10

Course Name: World Costumes

Credits: 3

Hours per week: 4

Total hours: 64

Course Objectives

- To Develop in depth understanding of the evolution of clothing
- To realize the importance of Ancient civilization costumes
- To acquire knowledge on Medieval & Renaissance period
- Gain knowledge on Asian, African & Sri Lankan costumes & accessories

Course Outline

Module-I

Evolution of costumes - Body decoration, Body ornamentation, Dress for Protection, Invention of the needle, Development of sewing, spinning & weaving, Discovery of natural fibers and development of garment styles .

5 Hrs

Module- II

Ancient civilizations- Mesopotamian, Assyrian, Babylonian-costumes 10hrs

Module-III

Ancient- Egyptian, Greek, Roman - Costumes, Headdresses, ornaments & footwear's 14hrs

Module- IV

Medieval & Renaissance -Europe costumes in Middle ages (5th to 15th century)
French costumes in Renaissance (1500-1600) 17hrs

Module V

Costumes & accessories - China, Japan & Thailand
Costumes & accessories of Africa – (Nigeria, Zambia) - Sri Lanka 18hrs

Reference Books:

- Fashion in the western world, Doreen Yarwood, Trafalger Square
- A history of Fashion-Kenneth, Black and Garland
- Western World Costume-An outline history-Carolyn G. Bradley, Dover Publications
- Historic Costume-From Ancient Times to Renaissance-Dover Publications
- A Pictorial History of Costumes-Pepin Press.
- Costume worldwide, Melissa Leventon, Thames and Hudson.

CFD5B11 FASHION MERCHANDISING, MARKETING AND MANAGEMENT

Course No: 5.2

Course Code: CFD5B11

Course Name: Fashion Merchandising, Marketing and Management

Credits: 4

Hours per week: 4

Total hours: 64

Course Objectives

- To increase awareness of the students regarding marketing
- To study and analyze the fashion market
- To understand the concept of merchandising
- To create awareness regarding customer relationship

Course Outline

Module I

Introduction to Merchandising, Fashion Marketing, marketing concepts, Marketing managements. Marketing – types, four P's, Marketing mix Buying behavior, Buying process, market segmentation and target marketing

12 hours

Module II

New product development, product life cycle (plc) -Fashion promotion- trade shows, market weeks, exhibitions, fashion shows, market survey and research advertising- scope, importance, types, merits & demerits; sales promotion, personal selling. Introduction to customer relationship management, measuring customer relationship management

15 hours

Module III

Merchandising-Merchandise- introduction meaning- Types of merchandising, Apparel and Fashion Merchandising, buying houses merchandising calendar - Merchandisers:- types of merchandisers - Roles of a Merchandiser- functions of a merchandiser.

12 hours

Module IV

Process flow of merchandising in apparel industry – buyer sourcing and communication - Merchandising correspondence orders, enquiry- order confirmation – planning and programming Handling of orders and dealing with manufacturers, Samples and types of samples

12 hours

Module V

Documentation-need for document invoice – order sheet packing list- invoice bill of exchange- bill of lading – GR form - INCO terms – Payment terms L/C

13 hours

Reference Books:

- Fashion marketing, Mike Easey, Blackwell science
- Fashion marketing and merchandising, ManmeetSoudiya
- Posner.H (2015) - Marketing Fashion – Laurence King Publishing – London.
- Fringes G.S (1999) - Fashion From Concept to Consumer –Prentice Hall –New Jersey
- Kincade. D. H, Gibson.F.Y(2010)-Merchandising of Fashion Products-Dorling Kindersley India Pvt Ltd- South Asia.

CFD5D01 INDUSTRIAL MANAGEMENT

Course No: 5.3

Course Code: CFD5D01

Course Name: Fashion Merchandising, Marketing and Management

Credits: 3

Hours per week: 3

Total hours: 48

Course Objectives

- To explain the principles and functions of Industrial management.
- To explain the structure of an industry and its production management systems.
- To explain leadership, organizing, strategic planning, and management control functions in an industrial organization.

Course Outline

Module I

Principles and Functions Of Management. Introduction, Concept and scope of Industrial Management. Industrial Ownership. Introduction to Human resources management: Nature of HRM, functions and importance of HRM.

Module II

Factory Design and layout – importance of factory design , factors affecting factory design , Types of buildings, (single and Multi –storey) –advantages and limitation . Factory layout – Process, Product and combined layout. Design requirement – requirements relating to health, safety and welfare.

Module III

Production systems in garment industry.types of production system, measurement methods for improvement, Plant capacity- Available capacity- Potential capacity- Required capacity- Plant Maintenance And Its Importance

Module IV

Industrial Disputes: causes, Strikes and Lockouts. Preventive Machinery of Industrial Disputes: Schemes of Workers Participation in Management- Works Committee

Reference books:

- Production & Operation Management /PaneerSelvam /PHI
- Industrial Engineering Management I RaviShankar/ Galgotia
- S.C Sharma, Industrial Safety and Health Management, Khanna Book Publishing Co. (P) Ltd., Delhi
- NADKARNI, LAKSHMI, Sociology of Industrial Worker, Rawat, Jaipur,1998
- BHOWMICK SHARIT, Industry, Labour and Society,Orient, 2012
- SINHA G.P. and P.R.N. SINHA, Industrial Relations and Labour Legislations, New Delhi, Oxford and IBH Publishing Co., 1977.Natarajan M., GovindarajanS., ‘Principles of Management’

CFD5B12(P) FASHION ACCESSORIES - LAB

Course No: 5.4

Course Code: CFD5B12 (P)

Course Name: Fashion Accessories - Lab

Credits: 2

Hours per week: 3

Total hours: 48

Course Objective :

- To teach the students the art of accessory designing to complement their garment designs with appropriate accessories.

Course Outline

Module I

An introduction to jewellery making - Various types of jewellery, materials used for making jewellery, metals and stones, - Types of jewelleries -neck ornament, earrings, hair ornaments, hand ornaments, leg ornaments, waist ornaments and headgears.(Only Theoretical)

Module II

Designing of three different jewelries on the basis of a selective theme: - Preparation of theme board, Mood board , Design board, color.

Module III

Product development using the above themes-

- ✓ traditional style jewellery,
- ✓ contemporary style jewellery
- ✓ fusion style jewellery.

Module IV : Material exploration- Develop a set of Eco friendly jewellery (Set – Neck, Ear, Hand/ Vangi)

Submit the above 4 article during external evaluation along with the record.

Note: Record Should include- An Introduction to Jewellery, types of jewelries and materials used for jewelry making- The boards mentioned above for the three jewelries, final photographs of the 4 articles and also include a study about the materials used for the eco-friendly jewelry.

Reference Books:

- History of Jewellery 1100-1870, Joan Evans, Faber.
- Ancient Jewellery (Interpreting the Past series), Jack Ogden, University of California Press.
- Five centuries of Jewellery: From the collection of Ancient Art Museum, Lisbon, LeornorD'Orey, Scala Books

CFD5B13(P) GARMENT ASSEMBLING - WOMEN'S WEAR- LAB

Course No: 5.5

Course Code: CFD5B13(P)

Course Name: Garment Assembling- Women's Wear - Lab

Credits: 4

Hours per week: 5

Total hours: 80

Course Objective

- To teach the students how to assemble complete garment
- To introduce them to various sewing techniques.

Module I : Construct a stylized salwar –with Waistband , pleat: Kali salwar/ordinary

Module II : Construct a stylized Churidar – With/Without waist band

Module III : Construct a stylized Kameez- with dart / princess cut.

Module IV : Construct a stylized saree blouse- three dart ,yoke

Module V

- Construct a stylized bra top- bra bodice with flared top
- Construct a stylized night dress- with or without yoke

Garment should be constructed in full size based on standard size chart. Record should be submitted at the time external examination.

Reference Books:

- Helen Joseph & Armstrong, (1995), *Pattern Making For Fashion Design*, United States, Prentice Hall Publications.
- 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 Publication
- Winifred Aldrich, (2009), *Metric Pattern Cutting for women's Wear*, 4th Edition, USA, John Wiley and Sons.

CFD5B14 [P] BASIC DRAPING - LAB

Course No: 5.6

Course Code: CFD5B14(P)

Course Name: Basic Draping - Lab

Credits: 2

Hours per week: 3

Total hours: 48

Course Objectives

- To teach students the art of draping.
- To study about the dress forms& design detail in relation to the human body
- Familiarizing them with the direct use of fabric on the dress forms
- To train them in using and handling fabric while draping.

Course Outline

Module I

Introduction to draping and dress forms - Preparation of fabrics.

Module II

Basic bodice :Basic Front with waist dart, marking, trueing and test fit- Basic Back bodice with waist dart and shoulder dart , marking ,trueing and test fit.- Basic double dart bodice - Bodice with yoke

Module III : Basic sleeve - Basic skirt-front - Basic Skirt: Back Skirt with yoke

Module IV :

Princess line dress - Construct a full size garment using basic techniques of draping.

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

Reference Books

1. Draping for fashion design: Nurie Relis / Hilde Jaffe, Reston publishing co.
2. Designs cutting and draping for special occasion clothes : for evening wear and party

CFD5B15 (P) COMPUTER AIDED DESIGNING _ LAB

Course No: 5.7

Course Code: CFD5B15 (P)

Course Name: Computer Aided Designing - Lab

Credits: 2

Hours per week: 3

Total hours: 48

Course Objectives

- To teach students the use of advanced computer aided designing and presentation softwares.

Course outline

Module I :

Introduction on textile prints - print development and their application. Prints : Manipulation of motif --floral designs -traditional - - abstract

Module II

~ One way designs -- two way designs --four way designs -- tossed designs

Module III

~ Checks -2 types each - Stripes -2 types each

Module IV

Presentations – Inspiration board –based on the Inspiration board 2 women’s/men’s costume

Term Submission: • **Record which contains the work of entire semester.**

Reference Books:

1. CAD for Fashion Design, Renee Weiss Chase, Prentice Hall
2. CAD in Clothing and Textiles : A collection of Expert Views , Winifred Aldrich, Blackwell Science
3. Photoshop 6 color, randy Morgan/Jim Rich, New Riders Publishing.
4. Fundamentals of Photoshop 5.5, Adele Droblas, Greenberg & Seth, McGraw Hill
5. Adobe Photoshop 5.5 and Adobe Illustrator 8.0: Advanced classroom in a Book, Adobe Creative Team, Adobe

SEMESTER VI

CFD6B16– APPAREL COSTING

Course No: 6.1

Course Code: CFD6B16

Course Name: Apparel Costing

Credits: 4

Hours per week: 4

Total hours: 64

Course Objectives

- To gain knowledge of accounting and costing in garment industry
- To help the students to implement the knowledge gained in day to day life

Course Outline

Module I

Introduction to cost accounting: Responsibility Accounting, Uses of Cost accounting,. Cost - Types of Cost: Fixed Cost, Variable Cost, Semi Variable Cost, Conversion Cost, Differential Cost

15 hours

Module II

Elements of Cost - Direct Material Cost - Direct Expenses - Direct Wages - Indirect Materials -Indirect Expenses - Indirect Labour - Overheads - Production Overhead - Administrative Overhead -Selling Overhead Distribution Overhead - Components of Cost Sheet. Various factors to be considered in costing for domestic products & international products in apparel industry

12 hours

Module III

Cost Estimation of process - Fabric Dyeing, Printing & Finishing. Arriving of Cost Estimation for Cutting, Stitching, Checking, Packing –woven and knitted fabrics

15 hours

Module IV

Cost volume profit analysis: Break even analysis –contribution margin, variable cost ratio, and marginal income, Price/volume analysis Price elasticity of demand and supply, marginal revenue and marginal Cost, cost plus pricing, variable cost pricing, direct cost pricing

10 hours

Module V

Budget – definition, principles of budget, types of budget - time, activity and function . The budgeting process, Budgetary control – definition, requirement, steps.

12 hours

References

1. “Jeremy Rosenau, Apparel Merchandising.
2. B.M. Lal Nigam, Cost Accounting Principles and Practice

CFD6B17 – FASHION RETAIL AND VISUAL MERCHANDISING

Course No: 6.2

Course Code: CFD6B17

Course Name: Fashion Retail and Visual Merchandising

Credits: 4

Hours per week: 4

Total hours: 64

Course Objectives

- To study about Visual merchandising and its importance
- To understand the various steps in store management
- To create awareness regarding store planning.

Course Outline

Module I

Introduction to retail –Retailing: Definition and Evolution functions performed by retailers -The Indian retail industry-Retail store formats: Store based:specialty stores, Department stores and mass merchants- Non-Store based retailers: Mail order merchants, E-commerce, Television shopping
10 hours

Module II

Introduction to visual merchandising- Elements of visual merchandising-Importance of visual merchandising in fashion industry-Benefits and Objectives of visual merchandising
15 hours

Module III

Introduction to Window display-Types of Window display -Materials used- Lighting ,Colour and Texture Benefits-Importance of window display in fashion industry
15 hours

Module IV

Store lay out planning-Interior and Exterior of stores-Variety Types of Store Layouts, Grid layout, Forced-path layout, Free-form layout, Boutique layout, Combined layout, Store Space Allocation Uses of fixture-Uses of Mannequins-Types of mannequin and Dress forms.,
14 hours

Module V

Fashion Show: Introduction- importance – planning for fashion show - Types of Fashion Shows - Benefits
10 hours

Reference Books

- Swati Bhalla & Anuraag Singha , Visual Merchandising
- Robert Colborne, Visual Merchandising: The Business of Merchandise Presentation
- Laura L Bliss, Study Guide Visual Merchandising and Display III edition, Fairchild Publications, 1995
- Gibson, G. Vedomani, Retail Management, Jaico Publishing House, Bangalore
- Brenda Sternquist, International Retailing, Fairchild Publication, New York 30
- Martin M Peglaer(SVM), Visual merchandising and display third edition,

CFD6B18 - PERSONAL GROOMING AND STYLIZING

Course No: 6.3

Course Code: CFD6B18

Course Name: Personal Grooming and Styling

Credits: 3

Hours per week: 4

Total hours: 64

Course Objectives

- To study and explore various fashion accessories
- Understand the concept of fashion styling
- To get an overview on the personal grooming in the industry

Course Outline

Module I

Introduction to Fashion styling, Roles of a Stylist. Types of styling- Editorial Fashion Styling, Commercial styling, Personal/ Celebrity styling, Fashion show styling, Merchandise styling

12 hours

Module II

An introduction to Personal Grooming and styling – colour theory – body types – garment types and accessories –Type of Fashion Accessories: - Jewellery (necklace, earrings, rings) bags and hair accessories hats- umbrella – shoes

Activity : Styles combining different accessories, photograph it and make a record

13 hours

Module III

Personal Styling – understand the a client – wardrobe – profession – personal interest – hobbies – new styling based on personality

Activity – select a person from any profession study their wardrobe, know their interest through peronelinterview , write an articles about the person

13 hours

Module IV

Product or Merchandise styling–definition – importance - Commercial styling – types of products – importance of style in marketing of the product- advertising campaign.

Activity – select a product create an advertising campaign

13 hours

Module V

Editorial Fashion Styling – definition, work of an editorial stylist- importance of styling for magazine photoshoot – styling based on theme – case study - various styles cover page of magazines.

Activity - pick a theme recreate the cover page of a magazines

13 hours

Reference Books

- Encyclopedia of Fashion accessories -Phyllis TortoraFairchild
- Ellinwood. J G (2011)-Fashion By Design- Fairchild Books – New York
- John Peacock, " The complete 20th Century Source Book", Thames and Hudson, London, 2000
- Shoes -Fashion and Fantasies, Thames and Hudson, 1989

CFD6B19 (P) GARMENT ASSEMBLING -MEN’S WEAR – LAB

Course No: 6.4

Course Code: CFD6B19 (P)

Course Name: Garment Assembling-Men’s Wear - Lab

Credits: 4

Hours per week: 5

Total hours: 80

Course Objectives

- To help students to create patterns for adult wear category of clothing men’s wear and wear
- To construct garments based on the drafted patterns

Course Outline

Module I :

Construct a stylized Full Sleeve Shirt. with patch pocket, shirt collar, kurtha placket and cuff.

12 hours

Module II :

- Construct a stylized Narrow Bottom Trousers -With – fly zipper- Front hip pockets-
- Welt pocket- Belt loops

13 hours

Module III :

- Construct a stylized Kalidar Kurtha with stand collar

10 hour

Module IV :

- Construct a stylized S. B. Vest with four welt pockets

15 hours

Module V :

- Construct a stylized S.B. Coat With notch collar, one upper welt pocket and two lower pockets with flap

30 hours

The garment should be constructed in full size based on standard size chart. The Record should be submitted at the time of External Evaluation.

References :

- Helen Joseph & Armstrong, (1995), Pattern Making For Fashion Design, United States, Prentice Hall Publications.
- 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 & Gayle Strauss, (1996), Sewing for Fashion Design, US, Prentice Hall Publication
- Winifred Aldrich, (2011), Metric Pattern Cutting for Men's Wear, 4th Edition, USA, John Wiley and Sons.

CFD6B20 (P) – PORTFOLIO

Course No: 6.5

Course Code : CFD6B20 (P)

Course Name: Portfolio

Credits: 3

Hours per week: 4

Total hours: 64

Course Objectives

- To make students understand the importance and significance of portfolios and presentations
- To help students to prepare a creative portfolio which include the best of their skills and talents.

Course Outline

- A theme based portfolio presentation.
- The portfolio should have a thematic collections of 5 garments and should include development of inspiration board, Mood board, Colour board, Fabric Board, Illustrations and Flat sketches.
- The students also have to document all their best presentable works done throughout the course of study that portray their individual area of interest.
- The creativity of students will be judged based on the selection of theme, Portfolio preparation, Contents of portfolio, presentation skills and Material management.
- The students are required to submit the portfolio as abound record during the external evaluation.
- The evaluation of the Portfolio will be done by an External Examiner appointed by the University.
- The mark distribution for the Portfolio shall be in the following pattern.

Distribution	Marks (60)
Portfolio Theme and Organization	20
Layout	20
Presentation	10
Viva	10

CFD6PR02 (Pr) – MAIN PROJECT

Course No: 6.6

Course Code: CFD6PR02 (Pr)

Course Name: Main Project

Credits: 2

Hours per Week : 4

Total hours: 64

Course Objective

- To provide students with advanced instructions and experience in the product development.

Course Outline

- Each student shall do an individual Project and submit towards the end of the internship under the supervision of a guide
- Products should be based on fashion and textile.
- Each student should submit a synopsis of the project work they indent to do to their concerned guide for approval before the commencement of their project
- Minimum four products should be developed under the supervision of the guide.
- All students shall submit 2 copies of the research to the department before the commencement of the 6th semester exam.
- The evaluation of the Project will be done by an External Examiner appointed by the University.
- The mark distribution for the Project shall be in the following pattern.

Distribution	Marks (60)
Design and Product Development	20
Presentation	20
Record	10
Viva	10

APPENDIX A – Guidelines for Mark Spit up for Practicals, Portfolio & Projects

In order to get uniformity in the mark distribution of Practical sessions, Portfolio, Mini Project and Main Project, the following criteria shall be followed by the Examiners.

For Practicals (LAB)

Distribution	Marks (60)	Marks (80)
Implementation	20	30
Output / Result	10	20
Record	20	20
Viva	10	10
Total	60	80

For Project Evaluation

Distribution	Marks (60)
Design and Product Development	20
Presentation	20
Record	10
Viva	10

For Portfolio (60 marks)

Distribution	Marks (60)
Portfolio Theme and Organization	20
Layout	20
Presentation	10
Viva	10

APPENDIX B – Guidelines for Project Report & Layout

Cover Page and First Page

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

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

Under the guidance of
.....

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

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

MONTH YEAR

Acknowledgement

ACKNOWLEDGEMENT

I would like to thank

Date:

Name of the Student

New Page/

Declaration by the Student

DECLARATION

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

Date:

Signature:
Name:
Reg. No.:
Semester

Certificate from Guide & HoD

COLLEGE NAME

CERTIFICATE

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

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

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



PROJECT EVALUATION REPORT OF THE EXAMINERS

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

Examiners:

- 1.
- 2.

Contents

INDEX

Sl No.	Contents	Page No.
1	Introduction	
2	Methodology	
3	Summary and Conclusion	
4	Bibliography	
5	Appendix Patterns Photographs	

Abstract

ABSTRACT

The abstract is a very brief summary of the report's contents. It should be about half a page long. Somebody unfamiliar with your project should have a good idea of what it's about having read the abstract alone and will know whether it will be of interest to them. An abstract is a section at the beginning of a report, dissertation, thesis or paper summarizing the contents, significant results and conclusions of said document. It allows people to rapidly ascertain the documents purpose and if the document will be useful for them to read.

Page

INTRODUCTION

This is a general introduction about the project. Briefly summarize the relevance and background information about the proposed work. It should have the following sections.

1. About the proposed work, underlying technologies and techniques – outline briefly the echnological / socioeconomic /relevance or significance of the project work
2. Project Profile – Tile, Area and Category and other relevant information.
3. About the Organization – to whom the Project Work is carried out.
4. Major Contributions of the Project Work.

REVIEW OF LITERATURE

(No Need for Mini Project – only for Main Project)

Page

METHODOLOGY

AIM:

OBJECTIVES:

PROCEDURE:

RESULTS AND DISCUSSIONS

(No Need for Mini Project – only for Main Project)

Page

SUMMARY AND CONCLUSION

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

BIBLIOGRAPHY

Ideas or contents taken from other sources should be properly cited. It is important that you give proper credit to all work that is not strictly your own, and that you do not violate copyright restrictions.

References should be listed in alphabetical order of authors' surname, and should give sufficient and accurate details..



Page

APPENDIX

Patterns

Photographs

Questionnaire



APPENDIX C - MODEL QUESTION PAPERS

**FIRST SEMESTER BSc. DEGREE EXAMINATION
CFD1B01 TEXTILE MANUFACTURE**

Time : 2 hrs

Maximum : 60 marks

Section A

Short Answer Type Carries 2 marks each - 12 questions - Ceiling 20
(12x2 = 24)

1. What is wet spinning?
2. What is parallisation of fibers?
3. Name the queen of fibers?
4. What are ply yarns?
5. Define twist.
6. What is knitting?
7. What is drafting?
8. Give two examples for protein fibers
9. Define Tex.
10. What is texturisation?
11. What is numbering system?
12. What are plain knitted structures?

Section B

Paragraph Type Carries 5 marks each - 7 questions - Ceiling 30
(7 X 5 = 35)

13. Explain the method of melt spinning.
14. State the quality parameters of sewing threads.
15. Explain the different types of spinning.
16. Write a note on friction spinning.
17. Explain the blow room process.
18. Explain about manmade fibers.
19. Explain the properties of Jute fiber.

Section C

Essay Type Carries 10 marks each - Answer any ONE question

(1 X 10 = 10)

20. Explain the working principle of rotor and friction spinning.
21. Explain in detail about the classification of textile fibers and their uses.

FIRST SEMESTER BSc DEGREE EXAMINATION

CFD1C01- BASICS OF FASHION AND DESIGN

Time: 2 hrs

Max. marks: 60

Section A

Short Answer Type Carries 2 marks each - 12 questions (Ceiling 20)

(12x2 = 24)

1. Define silhouette.
2. Define stylization.
3. Define prêt a porter.
4. What is fashion illustration?
5. Define trickle-up theory.
6. Define haute couture.
7. Difference between boutique and retail shop.
8. What are classics?
9. Define mass dissemination?
10. What do you mean by change in fashion?
11. Shortly explain five elements of fit.
12. What do you mean by Fashion forecasting ?

Section B

Paragraph Type Carries 5 marks each - 7 questions (Ceiling 30)

(7x5 =35)

13. Difference between prêt a porter and haute couture.
14. Draw and explain 10 head count.
15. Explain boutiques and the types of clothing boutiques.
16. Write about women's size ranges.
17. What are mannequins? Explain in detail types of mannequins.
18. Write in detail the working methods of pattern grading.
19. Explain female body types.

Section C

Essay Type Carries 10 marks each - Answer any ONE question

(1 X 10 = 10)

20. Explain in detail the fashion cycle and theories.
- 21 a) Write in detail eight head and ten head theory.
b) Explain in detail about various silhouettes and styles ?

FIRST SEMESTER BSc. DEGREE EXAMINATION

CFD1C02 BASIC SKETCHING - LAB

Time : 2 hrs

Maximum : 60 marks

Answer any TWO questions. Each carries 30 marks

1. Create a design from nature. Apply texture using poster colour or oil pastels
2. Draw a face with feature.
3. Draw a colour wheel using poster colour
4. Draw any three types of necklines, colour sleeves and skirt.
5. Draw a fashion ten head croqui $\frac{3}{4}$ pose using colour pencils

SECOND SEMESTER B Sc DEGREE EXAMINATION

CFD2B03-FABRIC CONSTRUCTION TECHNIQUES

Time: 2 hrs

Max. marks: 60

Section A

Short Answer Type Carries 2 marks each - 12 questions (Ceiling 20)

(12x2 = 24)

1. What is winding
2. What is Jacquard Loom
3. What is pigment color
4. What is count
5. What is non woven textile
6. State the uses of non woven textiles
7. Define weaving
8. What is leno
9. Define knitting
10. Define spun bond technology
11. What is sizing
12. What are the uses of knitted fabrics

Section B

Paragraph Type Carries 5 marks each - 7 questions (Ceiling 30)

(7x5 =35)

13. What is the types of looms
14. Explain the preparatory steps of weaving
15. Write a note on color theory
16. Write a note on weft and warp knitting
17. What is the difference between knitting and weaving
18. Write note on a) felted non woven b) Warping
19. Explain color and weave/knit effect

Section C

Essay Type Carries 10 marks each - Answer any ONE question

(1 X 10 = 10)

20. Explain in detail the types of weaves
21. Explain the process of weaving

SECOND SEMESTER B Sc DEGREE EXAMINATION

CFD2C03 - APPAREL MACHINERY AND EQUIPMENTS

Time: 2.5 hrs

Max. marks : 80

Section A

Short Answer Type Carries 2 marks each - 15 questions (Ceiling 25)

(15x2 = 30)

1. What is die cutter?
2. What is Marker
3. What is Pattern
4. What is Splice marker
5. Explain about the sharpening device n a cutting machine.
6. What is Marker Efficiency
7. What is Spreading
8. What Is A Throat Plate
9. Define sewing defects.
10. Name any two examples of super imposed seams with diagram?
11. What is band knife cutter?
12. What are function of notcher?
13. What is seam scaling?
14. What are functions of a tension disc?
15. What is drop feeding system?

Section B

Paragraph Type Carries 5 marks each - 8 questions (Ceiling 35)

(8x5 =40)

16. What are the requirements of Spreading?
17. What is the purpose of Pressing?
18. What are the objectives of Power system in a cutting machine
19. Write notes on Top pressing.
20. Explain the function of Bar tack machine.
21. Explain 2 properties of lock stitch machine.
22. Explain a marker and its types.
23. Write short notes on the performance of seams?

Section C

Essay Type Carries 10 marks each - Answer any TWO questions

(2 X 10 =20)

24. Explain carious types of cutting machines and its applicators.
25. Write notes on Pressing machines.
26. Explain in detail about the specialised sewing machine and its applications
27. Explain the feed systems and also write about the various feed systems.

THIRD SEMESTER BSc DEGREE EXAMINATION

CFD3B05- TRADITIONAL INDIAN TEXTILES AND COSTUMES

Time: 2 hrs

Max. marks: 60

Section A

Short Answer Type Carries 2 marks each - 12 questions (Ceiling 20)

(12x2 = 24)

1. Name the traditional brocades of Uttar Pradesh
2. Define costume
3. What is Chikankari
4. Define Banjara embroidery
5. What are the techniques of textile decoration
6. What are the traditional fabrics of Kerala
7. What is civilization
8. What is Chamba rumal
9. What is an accessory
10. What are the accessories used during Kushan period
11. State the traditional dyed fabrics of India
12. Name the traditional block printed fabrics of India

Section B

Paragraph Type Carries 5 marks each - 7 questions (Ceiling 30)

(7x5 =35)

1. What are the costume and accessories of Vedic period
14. What are the traditional textiles of Tamil nadu
15. What is Ikat and its types
16. What are the traditional Indian embroideries
17. Explain the various types of accessories used during the Kushan period
18. Explain the history of Indian textiles
19. Explain the Costumes and accessories of Indus valley civilization

Section C

Essay Type Carries 10 marks each - Answer any ONE question

(1 X 10 = 10)

20. Explain the beginning and growth of textiles in India
21. Explain the ancient costumes and accessories of Mughal and Satavahana period

THIRD SEMESTER BSc DEGREE EXAMINATION

CFD3C05- TEXTILE PROCESSING

Time: 2 hrs

Max. marks: 60

Section A

Short Answer Type Carries 2 marks each - 12 questions (Ceiling 20)

(12x2 = 24)

1. What is Steaming
2. Name any two styles of printing
3. What is stiffening
4. What is brushing
5. Define singeing
6. Name one functional finish
7. Define scouring
8. Give any three advantages of beaching using hydrogen peroxide
9. Define sublimation
10. Define winch dyeing
11. What is transfer printing
12. What are the advantages of mercerization

Section B

Paragraph Type Carries 5 marks each - 7 questions (Ceiling 30)

(7x5 =35)

13. What is blending and state the uses
14. Explain Beam dyeing
15. Write a note on bleaching using hypochlorite
16. Write a note on Disperse dyes
17. What is the difference between water repellency and water proof finish
18. Write note on a) Screen printing b) Roller printing
19. Explain embossing, Glazing and Moiering

Section C

Essay Type Carries 10 marks each - Answer any ONE question

20. X 10 = 10)

20. What are textile finishes
21. Explain in detail different techniques of printing

FOURTH SEMESTER B Sc DEGREE EXAMINATION

CFD4B08- GARMENT FINISHING AND CLOTHING CARE

Time: 2 hrs

Max. marks: 60

Section A

Short Answer Type Carries 2 marks each - 12 questions (Ceiling 20)

(12x2 = 24)

1. What is a winch
2. What is pH
3. What is centrifuging
4. What is the universal bleaching agent
5. What is calendering
6. Name any two optical brighteners
7. Define hardness of water
8. What is scrubbing
9. Draw the symbols of tumble drying
10. Draw the symbol of washing
11. Draw the symbol of ironing in different temperatures
12. What are the uses of stiffening agents

Section B

Paragraph Type Carries 5 marks each - 7 questions (Ceiling 30)

(7x5 = 35)

13. Write a note on wash and wear finish
14. Explain any two specialty finishes on clothing
15. Explain the application optical whitening agents
16. Write a note soaps and detergents
17. What are the precautions to be taken while storing woolen jackets and cotton fabrics
18. Write note on stain removal of a) blood b) lipstick
19. Explain the finishes given to denim

Section C

Essay Type Carries 10 marks each - Answer any ONE question

(1 x 10 = 10)

20. Explain the process of laundry in apparel industry
21. Explain Japan system of care labeling along with symbols

FIFTH SEMESTER B Sc DEGREE EXAMINATION

CFD5B10-WORLD COSTUMES

Time: 2 hrs

Max. marks: 60

Section A

Short Answer Type Carries 2 marks each - 12 questions (Ceiling 20)

(12x2 = 24)

1. Name any two accessories used by Japanese
2. What is corset
3. What is sewing
4. What is types of body decoration
5. What were the primitive garment styles
6. Who invented needle
7. What was the first known civilization
8. What is body decoration
9. Draw the head dress used by Egyptians
10. Draw any one accessory used by Greek
11. Draw any one footwear used by Romans
12. What are uses of developing various garment styles

Section B

Paragraph Type Carries 5 marks each - 7 questions (Ceiling 30)

(7x5 =35)

13. Write a note on European costumes in Middle age
14. Explain the costumes of Srilanka
15. Explain the costumes of Mesopotamian civilization
16. Write a note on French costumes
17. Describe the accessories of Japan
18. Write note on costumes of a) Nigeria b) Zambia
19. Explain the costumes of Thailand

Section C

Essay Type Carries 10 marks each - Answer any ONE question

(1X 10 = 10)

20. Explain the evolution of clothing
21. Explain the importance of Ancient civilization costumes

FIFTH SEMESTER B Sc DEGREE EXAMINATION

CFD5B11 - FASHION MERCHANDISING MARKETING AND MANAGEMENT

Time: 2.5 hrs

Max. marks : 80

Section A

Short Answer Type Carries 2 marks each - 15 questions (Ceiling 25)

(15x2 = 30)

1. What is fashion merchandising ?
2. What is fashion buying?
3. Name the forecasting?
4. What is fashion marketing
5. What is trade fare
6. What is secondary data
7. What is marketing myopia
8. What is demand
9. What do you mean by brand
10. What are the marketing entities
11. What is EDI
12. What is market system
13. What do you mean by product ?
14. FOB?
15. L/C?

Section B

Paragraph Type Carries 5 marks each - 8 questions (Ceiling 35)

(8x5 =40)

16. What is competitive marketing strategy ,what are its objectives
17. Write a note on method of forecasting demand
18. Explain the process of market research
19. What are the role of merchandisers
20. Explain the process of new product development
21. Explain the stages of product life cycle
22. Write a note on market segmentation
23. Explain marketing environment

Section C

Essay Type Carries 10 marks each - Answer any TWO questions

(2 X 10 = 20)

24. Explain the marketing mix
25. Explain merchandising buying process with flow chart of an apparel industry
26. Explain the customers buying behaviour
27. Explain INCO terms and its importance in the export business.

FIFTH SEMESTER B Sc DEGREE EXAMINATION

CFD5D01 – INDUSTRIAL MANAGEMENT

Time: 2 hrs

Max. marks: 60

Section A

Short Answer Type Carries 2 marks each - 12 questions (Ceiling 20)

(12x2 = 24)

1. What is strike?
2. What is plant capacity?
3. What is lockout?
4. What is productivity
5. What is inventory
6. What is controlling
7. What is human capital
8. What is plant site
9. Define wages
10. What staffing
11. What is dispute
12. What do you mean by appraisal

Section B

Paragraph Type Carries 5 marks each - 7 questions (Ceiling 30)

(7x5 =35)

13. What is measurement for production improvement
14. Write a note on industrial ownership
15. Explain HRM
16. What are the role of HR department
17. Explain the design requirement related to health and safety
18. Explain the importance of direction in management.
19. Write a note on workers participation in management

Section C

Essay Type Carries 10 marks each - Answer any ONE question

(1X 10 = 10)

20. Explain various production systems in garment industry
21. Explain industrial disputes and various preventive measures.