

HINDUSTHAN COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

COIMBATORE – 641 028.

B.Sc. COSTUME DESIGN & FASHION

SCHEME OF EXAMINATIONS – CBCS PATTERN

(For the students admitted from the academic year 2016 – 2017 and onwards)

CODE NO	SUBJECT	LECTURE HRS / WEEK	EXAM DURATION (HRS)	MAXIMUM MARKS			CREDIT POINTS
				IE	EE	TOTAL	
First semester							
	Part - I						
16LAT01/ 16LAH01/ 16LAM01/ 16LAF01	Tamil / Hindi / Malayalam/ French / - I	6	3	25	75	100	3
	Part - II						
16ENG01	English - I	6	3	25	75	100	3
	Part - III						
16CDU01	Basics of Apparel Technology	3	3	25	75	100	3
16CDU02	Components of Apparels	3	3	25	75	100	3
16CDU03	Allied - Practical I - Basics of Fashion Illustration (Cdf)	3	3	40	60	100	3
16CDU04	Practical II - Basics of Apparel Technology	4	3	40	60	100	4
16CDU05	Practical III - Components of Apparels	5	3	40	60	100	5
Second Semester							
	Part - I						
16LAT02/ 16LAH02/ 16LAM02/ 16LAF02	Tamil / Hindi / Malayalam/ French / - II	6	3	25	75	100	3
	Part - II						
16ENG02	English-II	6	3	25	75	100	3
	Part - III						
16CDU06	Apparel Pattern Making	3	3	25	75	100	3
16CDU07	Fashion Concepts	4	3	25	75	100	4
16CDU08	Allied -Practical IV - Advanced Fashion Illustration – (Cdf)	3	3	40	60	100	3
16CDU09	Practical V - Apparel Pattern Making	3	3	40	60	100	4
16CDU10	Practical VI - Apparel Surface Embellishment	3	4	40	60	100	3
	Part IV						
16GSU01	Value Education –	2	-	100	-	100	2

	Human Rights.						
Third Semester							
	Part III						
16CDU11	Textile Processing	5	3	25	75	100	4
16CDU12	Textile Science – I	5	3	25	75	100	4
16CDU13	Allied: Fashion and Clothing Psychology – (Cdf)	3	3	25	75	100	3
16CDU14	Practical VII - Textile Processing and Fabric Care	5	4	40	60	100	4
16CDU15	Practical VIII - Textile Science – I	4	3	40	60	100	4
16CDU16	Practical IX - Apparel Construction - I	6	4	40	60	100	4
	Part IV						
16GSU02	Environmental Studies	2	-	100	-	100	2
Fourth Semester							
	Part III						
16CDU17	Textile Science – II	5	3	25	75	100	4
16CDU18	Historic Costumes of India	4	3	25	75	100	3
16CDU19	Fashion Business Marketing	4	3	25	75	100	3
16CDU20	Practical X - Textile Science II	4	3	40	60	100	4
16CDU21	Practical XI - Apparel Construction – II	6	4	40	60	100	4
16CDU22	Practical XII - Textile Dyeing	5	4	40	60	100	4
16CDU23	Industrial Training	-	-	10 0	-	100	2
	Part IV						

16GSU03	Skill Based – Internet Security	2	-	10 0	-	100	2
	Part V						
16GSU04	Extension Activity	-	-	10 0	-	100	2

Fifth semester

	Part - III						
16CDU24	Computers in the Garment Industry	3	3	25	75	100	3
16CDU25	Fabric Production & Processing	5	3	25	75	100	4
16CDU26	Textile Finishing Technology	6	3	25	75	100	4
16CDU27	Practical XIII - Computer Aided Fashion Designing	5	3	40	60	100	4
16CDU28	Practical XIV - Garment Draping	5	4	40	60	100	4
16CDU29	Elective I (a): Practical XV - Textile Hand Printing Techniques (OR) Elective I (b): Entrepreneurship in Fashion Industry	4	4	40	60	100	4
	Part IV						
16GSU05	Non Major Elective General Awareness	2	-	100	-	100	2
	Part V						
16GSU06	Law of Ethics	-	3	-	10 0	100	2

Sixth semester

	Part - III						
16CDU30	Fashion Merchandising	4	3	25	75	100	3
16CDU31	Practical XVI - Fashion Photography	6	3	40	60	100	4
16CDU32	Project Work	2	-	40	60	100	4

140

REGULATIONS

Components for Evaluation:

1. Internal Examination Marks (For Part III theory papers)

Components	Marks
Test – I & II (Best of Two)	10
Model Exam	10
Assignment	5

Total	25
	=====

QUESTION PAPER PATTERN FOR IE TEST I and II

(2 HOURS TEST)

MAXIMUM 50 Marks

SECTION - A (20 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks

$(10 \times 2 = 20 \text{ marks})$

Short answers 10

SECTION - B (10 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks

$(2 \times 5 = 10 \text{ marks})$

Either or Type

SECTION - C (20 Marks)

Answer any **TWO** Questions out of **THREE** questions

ALL Questions Carry **EQUAL** Marks

$(2 \times 10 = 20 \text{ marks})$

QUESTION PAPER PATTERN FOR IE Model Examination

3

HOURS

TEST)

MAXIMUM 75 Marks

SECTION - A (20 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks
marks)

$(10 \times 2 = 20$

TWO questions from each unit

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks
marks)

$(5 \times 5 = 25$

Either or Type.

ONE question from each unit with internal choice

SECTION - C (30 Marks)

Answer any **THREE** Questions out of **FIVE** questions

ALL Questions Carry **EQUAL** Marks
marks)

$(3 \times 10 = 30$

ONE question from each unit

2 a) Components for Practical I.E.

Components	Marks
Test - I	20
Test - II	20

Total	40
	=====

2 b) Components for Practical E.E.

Components	Marks
Completion of Experiments	50
Record	5
Viva	5
	=====
Total	60
	=====

3. Institutional/ Industrial Training, Mini Project and Major Project Work

Institutional /Industrial Training		Mini Project	Major Project Work	
Components	Marks	Marks	Components	Marks
I.E			I. E	
Work Diary	25	-	a) Attendance	
Report	50	50	10 Marks	
Viva – voce	25	50	b) Review /	
Examination			Work Diary* ¹ 30 Marks	40
	=====	=====		
Total	100	100	E.E*²	

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			b) Viva-voce Marks	20	60
				Total	100

*¹ Review is for Individual Project and Work Diary is for Group Projects (group consisting of minimum3 and maximum5)

*²Evaluation of report and conduct of viva voce will be done jointly by Internal and External Examiners

4. Components for Value Education (Part IV):

S.No.	Components	Marks
a)	Attendance 96% and above - 30 marks 91% to 95% - 25 marks 86% to 90% - 20 marks 76% to 85% - 10 marks	30 marks
b)	Participation in group activity	30 marks
c)	Assignment (2 x 10)	20 marks
d)	Test (1 hr for 20 marks) 2 out of three questions, 10 marks each	20 marks
	Total	100 marks

On completion of the above components students will be remarked as follows:

Range of marks	Equivalent remarks

80 and above	Exemplary
70 – 79	Very good
60 – 69	Good
50 – 59	Fair
40 – 49	Satisfactory
Below 39	Not Satisfactory = Not completed

- The passing minimum for this paper is 40%
- In case, the candidate fails to secure 40% passing minimum he / she may have to reappear for the same in the subsequent semesters.

5. Guidelines for Environmental Studies (Part IV)

- The paper Environmental Studies is to be treated as 100% IE course which is offered in III Semester for II year UG students.
- The classes will be handled for two hours per week till the end of the Semester. At least one field trip should be arranged.
- Total Marks for the subject = 100

Components	Marks
Two Tests (2 x 30)	60
Field visit and report (10 + 10)	20
Two assignments (2 x 10)	20

Total	100
	=====

The question paper pattern is as follows:

Test I – 2 hours [3 out of 5 essay type questions] $3 \times 10 = 30$ Marks

Test II – 2 hours [3 out of 5 essay type questions]

$3 \times 10 = 30$ Marks

Total 60 Marks

- The passing minimum for this paper is 40%
- In case, the candidate fails to secure 40% passing minimum he / she may have to reappear for the same in the subsequent semesters.

6. Guidelines for Skill based subject - Internet Security (Part IV)

Components	Marks
Two Tests (2 x 40)	80
Two assignments (2 x 10)	20
Total	100

The question paper pattern is as follows:

- a) Test I – 2 hours [4 out of 7 essay type questions] $4 \times 10 = 40$ Marks
- b) Test II – 2 hours [4 out of 7 essay type questions] $4 \times 10 = 40$ Marks

Total 80 Marks

- The passing minimum for this paper is 40%
- In case, the candidate fails to secure 40% passing minimum he / she may have to reappear for the same in the subsequent semesters

7. Guidelines for General Awareness (Part IV)

Components	Marks
Two Tests (2 x 50)	100

The question paper pattern is as follows:

Test I – 2 hours [50 multiple choice questions] $50 \times 1 = 50$ Marks

100 Marks**Total**

- The passing minimum for this paper is 40%
- In case, the candidate fails to secure 40% passing minimum he / she may have to reappear for the same in the subsequent semesters

8. Guidelines for Law of Ethics (Part V)

Components	Marks
Two Tests (2 x 50)	100

The question paper pattern is as follows:

- c) Test I – 2 hours [5 out of 8 essay type questions] $5 \times 10 = 50$ Marks
- d) Test II – 2 hours [5 out of 8 essay type questions] $5 \times 10 = 50$ Marks

Total 100 Marks

- The passing minimum for this paper is 40%
- In case, the candidate fails to secure 40% passing minimum he / she may have to reappear for the same in the subsequent semesters

9. Guidelines for Extension Activity (Part V)

- At least two activities should be conducted within this semester (IV) consisting of two days each.
- The activities may be Educating Rural Children, Unemployed Graduates, Self Help Group etc.

The marks may be awarded as follows

No of Activities	Marks
2 x 50	100
(Each Activity for two days)	

10. QUESTION PAPER PATTERN FOR EE (Part III Theory Papers)**(3****HOURS****TEST)****MAXIMUM 75 Marks**

SECTION - A (20 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks

(10 x 2 = 20 marks)

TWO questions from each unit

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks

(5 x 5 = 25 marks)

Either or Type.

ONE question from each unit with internal choice

SECTION - C (30 Marks)

Answer any **THREE** Questions out of **FIVE** questions

ALL Questions Carry **EQUAL** Marks

(3 x 10 = 30 marks)

ONE question from each unit

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Unit No	Topics	Hours
Unit I	Basics of sewing: Introduction – Definition and types of Apparels and types of fabrics, Tools – cutting, Hand sewing, Measuring, Marking, general and Pressing tools.	6
Unit II	Sewing Machine Definition, types. Domestic machine – parts and functions, adjustment, Problems, care and maintenance.	6

	Introduction to embroidery stitches.	
Unit No	Subject Basic stitches - Stemstitch, Satin stitch, chain stitch, Blanket stitch, Herringbone stitch, French Knot, Couching and its variations.	Semester 6 No
16CDU01	BASICS OF APPAREL TECHNOLOGY	I
Objective	To impart the basic knowledge on stitching and the tools used for Seams, Seam Finishes and Hems. apparel construction.	
Unit IV	Types of seams and its construction methods, Seam Finishes and its types, Hints on seam construction. Hems – types and its construction.	12
Unit V	Fasteners Types – Buttons, Button holes, types, Button loops, other types of fasteners, hooks, zips.	6

Text Book:

1. *Mary Mathews, Practical Clothing Construction – Part I and II, (1986) Cosmic Press, Chennai.*

Reference Books:

1. *The Complete Book of Sewing (1986) Dorling Kindersley Limited, London.*
2. *Sewing and Knitting – A Readers Digest, step- by – step guide, Readers Digest Pvt Ltd, Australia.*
3. *Coles MSew, A complete guide for sewing – Heinemann Professional Publishing, Singapore.*

Unit No	Topics	Hours
Unit I	Basic Fullness Fullness- definition, types. Darts and its types, tucks and its types, Yoke and its types, Godets.	7
Unit II	Advanced Fullness. Introduction, devices to introduce fullness – flares,	7

	Pleats, Frills, Ruffles, Gathers, Flounces.	
	Facings and Bindings Facing and binding, Bias – uses, Cutting and stitching, Facing – types, Methods of stitching, binding - types, methods of stitching	
Unit II Code No	Subject	Semester No
16CDU02	COMPONENTS OF APPARELS	I
Objective Unit IV	Plackets To study and master the concepts of constructing various parts of the garment, Definition and characteristics of good placket, Types of Plackets and methods of applying	
Unit V	Fittings. Garment fitting techniques and the steps involved in it. Standards for a good fit	7

Text Book:

1. *Mary Mathews, Practical Clothing Construction – Part I, (1986), Cosmic Press, Chennai.*

Reference Books:

1. *Zarapker, Zarapker System of Cutting- K. R, Navneet Publications Ltd.*
2. *Eshwasri Anwahi, Practical cutting and tailoring part II Lakhraj Hans R.B Publications, Delhi.*
3. *Easy cutting – Juvekar commercial Tailors Corporation pvt 166 Dr. Ambedkar Road dadar.*

Code No	Subject	Semester No
16CDU03	ALLIED - PRACTICAL - I – BASICS OF FASHION ILLUSTRATION (CDF)	I
Objective	To develop the skill of drawing and learn the concepts of art.	
Exercise No	Topics	
Exercise 1	Introduction to Art: Art materials and tools - natural & manufacturing pens, charcoal crayons and Inks – pigments and chalks – oil, water, poster, acrylic colours – types of brushes, types of surfaces.	

Exercise 2	Introduction to Design: Elements of art – line, shape, colour, texture, space, chiaroscuro, plasticity, mass, volume, planes, modeling, molding. Principles of art – unity and variety – balance, rhythm emphasis and focal point – harmony – proportion – contrast and gradation.
Exercise 3	Drawing of Shapes: Study of shapes, volume, light and shades, perspective and composition. Exercise based on lines to geometrical shapes – squares – circle- triangle. Making the shapes into solid form Using light effects. Parallel and angular perspective with simple solids polygons and circles. Drawing of plan, elevation and section of simple objects (hair, table, stool, podium, etc.,)
Exercise 4	Introduction to colour theory: Prang Colour wheel: Creating colour wheels in primary colors, secondary colors, tertiary colours and monochrome. Warm and cool color – harmony and contrast. Medium poster color / water color.
Exercise 5	Basics of Human Anatomy Draw male and female anatomy with drapery, simple free hand drawing to understand basic proportion and centre of gravity. Hatching, cross hatching and line drawing.

Text Book:

1. Gene A. Miller – Macmillan, 1989, *Creating and understanding drawings*, – McGraw – Hill

Reference Books:

1. Gene A. Miller – Macmillan, *Art in Focus*, 1989, McGraw – Hill Rathus, *Understanding art* Louis Fichner.

2. Pranath mago *Contemporary art in India* – NBT.India.

Code No	Subject	Semester No
16CDU04	PRACTICAL -II - BASICS OF APPAREL TECHNOLOGY	I
Objective	To be aware of the current fabrics introduced in the market.	
Exercise No	Topics	
Exercise 1	Basic stitches : Preparation of samples for the following. Temporary stitches, Permanent stitches, any 10 basic	

	embroidery stitches.
Exercise 2	<p>Seam</p> <p>Preparation of samples for the following. Different types of seams Plain seam Top stitched seam Welt seam Lapped seam Slot seam Flat fell seam French Seam Mantua maker seam Piped seam</p>
Exercise 3	<p>Seamfinishes and Hems:</p> <p>Preparation of samples for the following. Different types of seamfinishes – Pinned Finish, Edge stitched finish, Double stitch finish, Overcast finish, Herringbone finished seam Bound seam edge finish. Hems – Stitched and turned hem seambinding hemfinish, catch stitched hem Narrow machine stitched hem Rolled or whipped hem Shell edged hem Hem for circular and flared skirts.</p>
Exercise 4	<p>Mending:</p> <p>Preparation of samples for the following. Darning - Plain weave hand darn, Darned in patch and Machine darning. Patching – Hemmed patch, Print patch.</p>
Exercise 5	<p>Market Survey *:</p> <p>Collection of Latest Garment designs and Fabrics for Men, Women and Children through field trip / Window Shopping for Men, Women and Children.</p>

*** Note: Students should visit showrooms in the market and submit a report on the latest Garment Design as an assignment**

Text Book :

1. *Mary Mathews, Practical Clothing Construction – Part I and II, (1986) Cosmic Press, Chennai*

Reference Books:

1. *The Complete Book of Sewing – (1986) Dorling Kindersley Limited, London*
2. *Sewing and Knitting – A Readers Digest, step- by – step guide, Readers Digest Pvt Ltd,*
3. *Coles M Sew, A complete guide for sewing – Heinemann Professional Publishing, Singapore.*

Code No	Subject	Semester No

16CDU05	PRACTICAL- III – COMPONENTS OF APPARELS		I
Objective	To master the skill of constructing various parts of the garment.		
Exercise No	Prepare samples for the following		
Exercise 1	<p>Basic Fullness</p> <p>Darts – Single Pointed Dart, Double Pointed Dart, Decorative Dart. Tucks – Pin Tuck, Piped or corded tuck, Shell or Scalloped tuck, Cross Tucking, Grouptucking with scalloped effect. Pleats – Knife pleats, Box pleats, Inverted Box Pleats, Kick Pleats, Cartridge Pleats, Pinch Pleats and its construction methods.</p>		
	<p>Advanced Fullness</p> <p>Fullness- types - Flares, godets, gathers, shirrs frills or ruffles flounces and its construction methods.</p>		
Exercise 3	<p>Facings and Bindings:</p> <p>Facings – Bias Facing, shaped facing and decorative facing. Binding – single bias binding, double bias binding.</p>		
	<p>Plackets:</p> <p>Plackets - types – Inconspicuous placket – Continuous bound placket, Bound and faced placket, Zipper Placket, Slot seam Zipper Placket. Conspicuous plackets – Tailored Placket, Bound Neck Opening, Centre Front Opening – Box pleat style and its variation.</p>		
Exercise 5	<p>Fasteners:</p> <p>Fasteners – Conspicuous - Button and button-holes, button loops, shank buttons, eyelets and cords. Inconspicuous-press buttons, hooks and eyes, zips.</p>		

Text Book :

1. *Mary Mathews, Practical Clothing Construction – Part I, (1986) Cosmic Press, Chennai*

Reference Books:

1. *Zarapker. Zarapker System of Cutting- K. R, Navneet Publications Ltd.*

2. *Eshwasri Anwahi, Practical cutting and tailoring part II, Lakhraj Hans R.B Publications, Delhi.*

3. *Easy cutting – Juvekar commercial Tailors Corporation pvt 166 Dr. Ambedkar Road dadar.*

Code No	Subject	Semester No
16CDU06	APPAREL PATTERN MAKING	II
Objective	To impart knowledge on pattern making, drafting techniques and their tools.	
Unit No	Topics	Hours
Unit I	Measurements: Importance, preparing for measuring, ladies measurements, children's and men's measurements. Standardizing body measurements – importance, techniques used. Relative length and girth measures in ladies /gentlemen	7
Unit II	Pattern Making Methods: Pattern making – method of pattern making – Drafting and draping terms, types of paper patterns - drafting and basics of draping.	7
Unit III	Pattern Making: Tools and types used for pattern making. Principles of pattern drafting. Pattern details, steps in drafting basic bodice front and back and sleeve.	7
Unit IV	Fabric Preparation and Pattern Layout: Preparation of fabric for cutting – importance of grain in cutting and construction, steps in preparing the fabric for cutting. Pattern layout- definition, purpose, rules in layout, types of layouts for length wise striped designs, fabric with bold design, asymmetric designs, one way designs. Fabric cutting, transferring pattern marking, stay stitching, ease stitching.	8
Unit V	Pattern Grading: Pattern grading – definition, types , manual – master grades ,basic front, basic back, basic sleeve, basic collar and basic skirt.	7

Text Book:

1. *Mary Mathews, Practical Clothing Construction – Part I and II, (1986) Cosmic Press, Chennai*

Reference Books:

1. *The Complete Book of Sewing – (1986), Dorling Kindersley Limited, London*
2. *Sewing and Knitting – A Readers Digest, step- by – step guide, Readers Digest Pvt Ltd,*
3. *Helen Joseph Armstrong, Pattern Making for Fashion Design, Pearson publishers, 5th edition.*

Unit No	Topics	Hours
Unit I	<p>Fashion Terms Terms related to the fashion industry – fashion, style, fad, classic, and collection, chic Custommade , mannequin , fashion , show, trend, forecasting, high fashion, fashion cycle, haute couture, couture, couturier, fashion director, fashion editor, line, knock-off avant garde, bridge, buying house, apparel, fashion merchandising, pret – a – porter, sample.</p>	9
Unit II	<p>Elements and Principles of Design: Design- definition and types – structural and decorative design, requirements of a good structural and decorative design. Elements of design – line, shape or form colour, size and texture. Application of structural and decorative design in a dress, selection and application of trimmings and decorations. Fashion accessories- shoes, handbags, hats, ties – different types/ shapes. Principles of design- balance – formal and informal, rhythm through repetition, radiation and gradation, emphasis, harmony and proportion. Application of principles of design in a dress.</p>	10
Unit III	<p>Colour Theory Colour- definition, colour theories- prang colour chart and munsell colour system Dimensions of colour- hue, value, and intensity. Standard colour harmonies- application in dress design. Colour in principles of design- application of the same in dress design.</p>	10
Unit IV	<p>Fashion Designers Understanding Fashion designer – types – classicist, idealist, influenced, realist, thinking poet. Indian Fashion designers – Haute couture – Rohit Khosla, Gitanjali kashyap , hemant Trivedi, J.J Valaya ,James ferrerira, Ritu Kumar ,Rohit bal, Tarun Tahiliani Minimalists- Himanshu and sonali sattar , sangeetha Chopra, Wendell Rodricks. Village India- Bhamini Subramaniam Anju modi, Indira Broker, Madhu Jain. Studio line – Bhairavi jaikishan ,Kishan Mehta ,Ravi Bajaj ,Ritu beri, Rockys.</p>	10
Unit V	<p>WORLD FASHION DESIGNERS Study of Fashion Designers – Indian designers any five and world designers any five – Profile, specialization, brand etc., World fashion centers – France, Italy, America, Fareast. Contributions of well known designers from France, Italy, America, Britain and Fareast Countries.</p>	9

Code No	Subject	Semester No
16CDU07	FASHION CONCEPTS	II
Objective	To impart knowledge on Fashion concepts.	

Text Book :

1. Bennett, *Inside the fashion business – (1998) Coleman & o, Mumbai.*

References:

1.Helen Goworeck, *Fashion Buying.*

2.Mke Easey, *Fashion Marketing*

3.Leslie, Davis Buran, *Business of Fashion .*

Code No	Subject	Semester No
16CDU08	ALLIED - PRACTICAL -IV - ADVANCED FASHION ILLUSTRATION (CDF)	II
Objective:	To train students for free hand Fashion Sketching.	
Exercise No	Topics	
1	Human Anatomy- Figure basics, Constant proportions, Shapes and parts of human body. Figure Construction, Skeleton figure, Study of different postures - Head- Face, Eyes, Lips, Nose, Hand - Fingers, Leg - Feet and Toes, Hand and Arms.	
2	Normal Drawing - Eight head theory. Drawing croqui figures-stick, geometric, flesh- 7 ½, 8 ½ and 10 head figures.	
3	Fashion Figure Drawing - Drawing croqui figures-stick, geometric, flesh - 7 ½, 8 ½ and 10 head figures.	
4	Motif Development – Design Repeat and positioning, Rendering prints and textures with various fabric constructions (wovens, non-wovens and knit)	
5	Drawing different Silhouettes and garment components - sleeves, collars, necklines, cuffs, skirts, pants	
6	Different postures of male and female figure - ¾ view, back view, side view. Different poses like – S-Pose, X-Pose, and T-pose. Difference between normal and fashion figure.	
7	Application of garments on flesh croqui figures.	

Reference Books:

1. *Essential Fashion Illustration poses, 2007, Maomao publishers.*
2. *Hillary Lovel, Drawing Fashion and style, 2012, arcturus publishing limited .*
3. *Bina Abling, Fashion Rendering with colour, 2001, Prentice hall.*

Code No	Subject	Semester No
16CDU09	PRACTICAL - V- APPAREL PATTERN MAKING	II
Objective No	To impart knowledge about drafting, pattern making and its techniques.	Topics
Exercise 1	<p>Drafting the Pattern: Drafting a Basic Bodice Front , Bodice Back, Sleeve, Skirt, Collars</p>	
Exercise 2	<p>Preparation of Pattern: Preparation of pattern for the following - Bodice Front, Bodice Back, Sleeve, Collars, Skirts.</p>	
Exercise 3	<p>Layouts: Folds – Bold design, Checks and Stripes, Asymmetric designs, one way design, Dove tailing.</p>	
Exercise 4	<p>Dart Manipulation Methods: Styles created by shifting of blouse darts , adding fullness to the bodice, converting darts to seam and partial yokes and incorporating darts into seams forming yokes.</p>	
Exercise 5	<p>Pattern Alterations: General principles for pattern alteration, common pattern alteration in a blouse.</p>	

Text Book:

1. *Mary Mathews, Practical clothing construction Part I & II, cosmic press, (1986), Chennai*

Reference Books:

1. *Amaden Gewford, Fairchild Fashion Draping, 2005, Connje publication Inc.,*

2. *Hilary Campbell, Designing Patterns, 2003, OmBook services, New Delhi,.*

3. *Helen Joseph, Pattern Making for Fashion Design, Armstrong Pearson Education, Delhi,*

Code No	Subject	Semester No
16CDU10	PRACTICAL - VI - APPAREL SURFACE EMBELLISHMENT	II
Objective:	To Develop the skills in garment embellishment.	
Exercise No	Topics	
1	Advanced Embroidery: Sample Preparation Any 10 embroidery stitches and its variations	
2	Traditional Embroidery: Sample Preparation Kasuthi of Karnataka, Kutch and Kathiawar of Gujarat, Pulkhari of Punjab, Kantha of Bengal, Chickenkari of Lucknow, Kashida of Kashmir.	
3	Trimmings: Sample Preparation Laces, Stone, Crochet, Fringes, Tassels, Sequence, Zardosi	
4	Fabric Painting: Sample Preparation Liquid embroidery and its types	
5	Fabric Embellishment: Sample Preparation Smocking, Applique, Machine embroidery and its variations	

Text Book :

1. *Shailaja D. Naik, Traditional Embroideries of India* , – // , 1996., A.P.H Publishing Corporation, New Delhi,

Reference Books:

1. *Jay Diamond and Ellen Diamond, Fashion, Apparel, Accessories, Home Furnishings, 2007 Pearson Prentice*

Hall, New Jersey,.

2. *Usha Srikant, Designs for a lifetime* – 2002, Samata Enterprises, Mumbai,.

3. *Anita Tyagi, Ornamentation and Textile Design* .

Code No	Subject	Semester No
16CDU11	TEXTILE PROCESSING	III
Objective	To give a basic knowledge on Dyeing, Printing and Processing Industry.	
Unit No	Topics	Hours
Unit I	Processing Sequence Typical sequence of processes. Object and methods Singeing, Desizing, Scouring, Synthetic Fiber Heat setting, Wool carbonizing, Weighting of silk. Wet processing equipment – kier – J box – pad roll – U box – Roller bed – Conveyor steamer – stenter.	10
Unit II	Mercerization & Bleaching Mercerization – Theory process - Methods – Chemicals – effects. Bleaching – Hypo chlorites – Hydrogen peroxide – sodiumchlorite. Equipments and chemicals for bleaching of cotton, viscose, cotton/ viscose Polyester/ cotton. Evaluation of bleached fabric – whiteness – absorbency – chemical damage - residues.	14
Unit III	Dyeing & its Classification Dyeing – Classification of colorants – fastness properties of dyes Dyeing – classification of colorants – fastness properties of dyes. Dyeing machines – fiber, yarn and fabric dyeing machines – loose stock fiber bale – hank package –	12

	jigger – winch – HT Beamjet – padding mangles. Garment dyeing machines.	
Unit IV	Printing Printing styles of printing – direct – discharge – resist styles. Methods of printing – screen printing – automatic screen printing – roller printing – rotary printing – transfer printing. Fixation and after treatment.	14
Unit V	Processing of various fabrics Wet processing of Knitted fabric – scouring – Bleaching dyeing – printing calendering. Shrink controlling - steaming. Wet processing of polyester, Nylon, silk, wool and their blends.	10

Text Book :

1. *Shenai V.A." Technology of textile processing" Sevale publications, Vol. III, V, VI, VII*

Reference Books:

1. *Paters R.H.Textile Chemistry" 1970, Textile institute, Manchester Vol. I, II.*

2. *Lewis D.M' Wool Dyeing" 1990, SDC publications England.*

3. *Corbmann B.P, Textiles – fibre to fabric, International student' s edition, Mc GrawHill.*

Code No	Subject	Semester No
16CDU12	TEXTILE SCIENCE -I	III
Objective	To impart the basic knowledge in fabric manufacturing Technology & the current trend in Textiles.	
Unit No	Topics	Hours
Unit I	Introduction to Fibers Introduction to the field of textiles- classification of fibres – natural and chemical – primary and secondary characteristics of textile fibers.	12
Unit II	Manufacturing Process Of Various Fibers Manufacturing process ,properties and uses of natural fibres – cotton linen, Jute, pineapple ,hemp ,silk , wool, hair fibers, man-made fibres – Viscose rayon ,acetate rayon , nylon, polyester, acrylic.	12

Unit III	Spinning and its Classification Spinning – Definition ,Classification – Chemical and mechanical spinning – blending, opening, cleaning ,doubling ,carding, combing, drawing ,roving ,spinning. Yarn classification – definition, classification – simple and fancy yarns, Sewing threads and its properties.	12
Unit IV	Fabric Formation: Formation – woven – nonwoven – definition, types. Weaves – weaving mechanism parts of a loom and basic process, basic weaves – plain, twill, satin. Fancy weaves - pile, double cloth, leno, swivel, dobby and jacquard.	12
Unit V	Survey* Survey on different types of fabrics – brand names, types of fabrics and their cost.	12

*** Students should visit showrooms in the market and submit a report on the latest fabrics available in the market.**

Text Book :

1. Corbmann B.P, *Textiles – fibre to fabric, International student's edition, Mc Graw Hill Book company Singapore 1985.*

Reference Books:

1. Joseph J Pretal, *Fabric Science, 1990, Fairchild Publications, Newyork 5th edition.*
2. *Textile preparation and dyeing, A.K. Roy Choudhury, 2006, science publishers.*

Code No	Subject	Semester No
16CDU13	ALLIED - FASHION AND CLOTHING PSYCHOLOGY (CDF)	III
Objective	To impart knowledge about fashion concepts and its psychology.	
Unit No	Topics	Hours

Unit I	Fashion Terms: Fashion evolution – Fashion cycles , Length of cycles , consumer groups in fashion cycles – fashion leaders , fashion innovators, fashion motivation , fashion victim fashion victims , Fashion followers .Adoption of Fashion – trickle down , trickle up and trickle across theory .Fashion forecasting – market research , evaluating the collection Fashion services and resources (fashion services ,Colour services ,video services , News letter services, websites, Directories and references),Design- Historic and ethnic costumes.	9
Unit II	Psychology: Factors influencing fashion changes – Psychological needs of fashion , Social psychology of Fashion , technological , economical , political ,legal and seasonal influence .role of costume as a status symbol , Personality and dress, cloths as sex appeal, cultural value Fashion cycles, repetition of fashion .	9
Unit III	Visual merchandising: Visual merchandising of fashion , types of displays – window displays , interior displays , Elements of display – the merchandise , mannequins and forms , props , signage , lighting Merchandising presentation – tools and techniques- back drop, forms, fixtures . Fashion show- Definition, planning, budgeting, location, timings, selection of models, collection ,set design ,music , preparing the commentary , rehearsal .	10
Unit IV	Wardrobe Planning: Wardrobe planning for different age groups, Fashion and season, Designing dresses for different occasions – business meetings, parties/ dinners, evenings/leisure hours, marriage functions, sports, uniforms for civil service, airhostess, hoteliers, high school – girls and boys .	10
Unit V	Figure Irregularities: Designing dresses for unusual figures – becoming and unbecoming – for the following figure types. Stout figure, thin figure, slender figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, large face, small face, prominent chin and jaw, prominent forehead.	10

Text Book:

1) *Gini Stephens Frings, Fashion – From concept to consumer – (1999),Prentice Hall 6th edition.*

Reference Books:

- 1)Solomon, Michael - *Consumer Behaviour in Fashion.*
- 2)*Ross Robert , Clothing- A Global History.*
- 3)*Meenakshi Narang, Fashion Technology Hand Book.*

Code No	Subject	Semester No
16CDU14	PRACTICAL - VII TEXTILE PROCESSING & FABRIC	III

CARE		
Objective	To impart the basic knowledge on Fabric preparation before Dyeing and Printing	
Experiment No	Topics	
1	Desizing – Acid desizing	
2	Enzymatic Desizing	
3	Scouring	
4	Bleaching - Hydrogen Peroxide	
5	Hypochlorite Bleaching	
6	Mercerization	
7	Degumming of silk	
8	Laundry Blue	
9	Soap Making - Hot & Cold Process	
10	Stain Removal – 10 Dry & Wet stains	

Text Book :

1. *Shenai V.A." Technology of textile processing" 1981, Sevale publications, Bonbay Vol. III, V, VI, VII.*

Reference Books:

1. *Paters R.H, Textile Chemistry" 1970 Textile institute, Manchester, Vol. I, II*
2. *Lewis D.M' Wool Dyeing" 1990, SDC publications England.*
3. *Corbmann B.P, Textiles – fibre to fabric, 1985, Mc Graw Hill Book company, Singapore, International student' s edition.*

16CDU15	PRACTICAL- VIII – TEXTILE SCIENCE - I	III
Objective	To identify the textile fibers & fabrics.	

Experiment No	Identification of textile fibers by Microscopic test, flame test, chemical test
1	Fibres – Cotton, Silk, Wool, Nylon, Polyester, Linen, Rayon, Jute.
2	Testing of Yarns /Fabrics
3	Counting of yarn using the wrap reel
4	Counting of yarn using Beesleys balance
5	Twist of the yarn using twist tester
6	Determining the weight of the fabric.
7	Determining the fabric count by a) Raveling method b) Pick Glass method
8	Course length and loop length of knitted fabric
9	Colour fastness to water
10	Test of Shrinkage
11	Test of Absorbency

Text Book :

1. Corbmann B.P, *Textiles – fibre to fabric*, 1985. Mc Graw Hill Book company, Singapore, International student' s edition.

Reference Books:

1. Joseph J Pretal, *Fabric Science*, 1990, Fairchild Publications ,Newyork, 5th edition.
2. Booth. J.E , *Handbook of Textile Testing- Edition -*,

16CDU16	PRACTICAL - IX - APPAREL CONSTRUCTION -I	III
Objective	To develop the skill of Garment Construction.	

Exercise No	Topics
1	Construction of Collars: (a) Peter pan collar (b)Puritan collar (c) Mandarin Collar (d) Shirt Collar
2	Construction of sleeves: Set – in – sleeves : (a)Plain sleeve (b)Puff Sleeve (c) Bishop Sleeve (d) Bell Sleeve
3	Construction of Skirts: (a) Gathered skirt (b) Flared Skirt (c) Pleated skirt
4	Construction of Kids Garment: (a) Bib- Variation in outline shape (b) Panty (c) Jabla
5	Construction of Kids Garment: (a)A-Line petticoat- double pointed dart, neck line and arm hole finished with facing
6	Construction of Kids Garment: (a) Yoke frock with yoke at chest line, with open, puff sleeve, gathered skirt. (b) Yoke frock without yoke
7	Construction of Kids Garment: (a) Baba suit

Text Book :

1. Zarapkar K.R, *System of Cutting*, 2005, Navneet Publications India

Reference Books:

1. *Scientific garment quality* – K Millege and Sons, Plot No. 43 , Somuvar Peth, pune
2. *Easy cutting* – Juvekar commercial Tailors Corporation pvt 166 Dr. Ambedkar Road
3. *Mary Mathews, Practical Clothing Construction Designing, Drafting and Tailoring*, 1991, Bhattarams Reprographics (P) Ltd., Chennai, Part-II.

Code No	Subject	Semester No

16CDU17	TEXTILE SCIENCE - II		IV
Objective:	To gain knowledge on textile fabric formation and the technology used in manufacturing.		
Unit No	Topics		Hours
Unit I	Introduction: Elements of woven design, Methods of fabric representation, draft and lifting plan, construction of elementary weaves – plain, warp rib, weft rib, twill, modification of twills, satin and sateen weaves – their derivatives.		10
Unit II	Honey Comb Weave: Ordinary and Brighton honey comb, its modification, huck a back and its modifications, crepe weaves, mock leno.		10
Unit III	Extra thread effects: Extra warp and extra weft figuring – single and two colours, planting, backed fabric, warp and weft backed fabrics.		10
Unit IV	Pile Fabric : Pile fabric – Formation of pile – weft pile – plain back, twill back – length, density and fastness of pile – corduroy weft plush. Warp pile – Terry pile, with the aid of wires, face to face warp pile. Double cloth – classification, self stitched – face to back, back to face, both. Centre stitched – warp and weft. Interchanging double cloth.		9
Unit V	Non woven: Non-Wovens- felting, fusing, bonding, lamination, netting, braiding and calico, tatting and crocheting.		9

Text Book :

1. Dr.N.Gokarneshan, *Fabric Structure & Design*, , New Age International publishers, Vol:I

Reference Books:

1. Grosichkli Z Newness, *Watson' s textile design and colour*. 1980, Butter worths, London.
2. Grosichkli Z Newness, *Watson' s advanced textile design*, 1989, Butter worths, London
3. Corbmann B P, *Textiles – fibre to fabric*, 1985, Mc GrawHill book Co, Singapore, International students edition.

Code No	Subject	Semester No
16CDU18	HISTORIC COSTUMES OF INDIA	IV
Objective	To gain the knowledge on traditional costumes of various states of India.	
Unit No	Topics	Hours
Unit I	Costume of North India Traditional costumes of Punjab, Kashmir, Rajasthan, Uttar Pradesh	10
Unit II	Costumes of South India Traditional costumes of Andhra Pradesh, Tamilnadu, Kerala, Karnataka	10
Unit III	Costumes of Middle West India Traditional costumes of Gujarat, Maharashtra, Madhya Pradesh	10
Unit IV	Costumes of Middle East India Traditional costumes of Orissa, Bengal, Bihar, Manipur and Nagaland	9
Unit V	Traditional Textiles and Costumes of Various States Traditional costume of India – Sarees - Dacca Muslin, Jamdhani, Kashmire shawls, Kancheepuram chanderi, Paithani, Baluchar, Banaras, Bandhani, Patola, Ikkat, Block print and Kalamkari sarees.	9

Text Book:

1) *Jamila Brij Bhushan, The costumes and textiles of India - (1958), D B Taraporevala Sons & Co, Bombay*

Reference Books:

1) *G.H Ghosrye, Indian Costume – Popular books Pvt Ltd*

2) *Dorris Flynn, Costumes of India – (1971) Oxford & IBH Publishing Co, Delhi.*

3) *Prakash. K, Indian Fashion Designers*

Code No	Subject	Semester No
16CDU19	FASHION BUSINESS MARKETING	IV
Objectives	To impart knowledge on basic accounting, apparel marketing, Retailing.	
Unit No	Topics	Hours
Unit I	Marketing: Meaning and classification of Marketing ,fashion Marketing ,fashion Market – Size and structure, Marketing environment – Micro and macro marketing environment , Trends in marketing environment	7
Unit II	Marketing Functions: Importance of fashion products , The fashion industry and new product development, product mix and range planning. Marketing Function – Assembling, standardization and Grading and packaging.	7
Unit III	Pricing: Pricing policies and strategies for apparel products, importance of price policies, Functions and factors Influencing pricing- internal and external, pricing strategies for new products, methods of setting prices.	7
Unit IV	Accounting: Accounting concepts and conventions – rules of accounts – importance of accounting – nature and scope of accounting – double entry system – advantage – difference between double entry and single entry	7
Unit V	Final Accounting: Journal, ledger, and Trial balance, subsidiary books – purchase book, sales books, purchase returns book, sales returns book and cash book with single, double and triple column cash book. Final accounts – trading and profit and loss A/C and balance sheet with simple adjustments	8

Text Book :

1. Mke Easey, *Fashion marketing – , 1995, Black well Science Ltd.*

Reference Books:

1. Philip C F and Duncon, *Marketing Principles and methods – Irwin Publications.*
2. Back Man T N, Munard H H and Davidson WR, *Principles of marketing – 1970, Ronald Press Company Newyork.*
3. RSN Pillai and Bhagavathi, *Marketing- 1987, S Chand and Company Ltd , New Delhi,*

Code No	Subject	Semester No
16CDU20	PRACTICAL- X - TEXTILE SCIENCE - II	IV
Objective	Learn to identify the textile fabrics and its formation.	
Exercise No	Identification of Different Types of Fabrics	
EX : 1	1. Plain weave and its derivatives (Warp rib, Weft rib) 2. Twill Weave – Right hand twill and Left hand twill. 3. Satin 4. Sateen 5. Honey comb Weave 6. Huck a back Weave 7. Extra Warp and Weft Figuring. 8. Double cloth. 9. Terry pile structures.	
EX : 2	a) Cotton b) Silk c) Wool d) Polyester e) Terry cot and f) Other Synthetic fibers	

Text Book :

1. Dr.N.Gokarneshan, *Fabric Structure & Design*, New Age International publishers Volume I.

Reference Books:

1. Grosichkli Z Newness, *Watson' s textile design and colour*. 1980, Butter worths, London.
2. Grosichkli Z Newness, *Watson' s advanced textile design*, 1989, Butter worths, London .
3. corbmann B P Textiles – fibre to fabric, 1985, Mc Graw Hill book Co, Singapore, International students edition.

Code No	Subject	Semester No
16CDU21	PRACTICAL- XI – APPAREL CONSTRUCTION II	IV
Objective	To develop the skill of designing and construction of Garments.	
Exercise No	Designing, drafting and constructing the following garments for the features prescribed. Measurements, Fabric Requirement and the cost to be calculated.	
1	WOMEN' S GARMENTS <ul style="list-style-type: none"> a) Saree Petticoat b) Skirts c) Nightie d) Kameez e) Blouse 	
2	MEN' S GARMENTS <ul style="list-style-type: none"> a) Full Sleeve shirt b) Pleated Trouser 	
3	Designing either Party wear or Fashion show garments	

Text Book:

1. *Mary Mathews, Practical Clothing Construction, Designing, Drafting and Tailoring, 1991, Bhattarams Reprographics (P) Ltd., Chennai, Part-II.*

2. *Zarapkar K.R, System of Cutting, 2005, Navneet Publications India*

References:

1. *Scientific garment quality – K Millege and Sons, Plot No. 43 , Somuvar Peth pune 411011*

2. *Easy cutting – Juvekar commercial Tailors Corporation pvt 166 Dr. Anbedkar Road*

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3. Commercial system of cutting - Juvekar commercial Tailors Corporation pvt

Code No	Subject	Semester No
16CDU22	PRACTICAL- XII - TEXTILE DYEING	IV
Objective	To Gain knowledge on the Dyeing process of textiles.	
Exercise No	Preparation of Samples for the following	
1	Direct dye	
2	Reactive dye – Hot brand	
3	Reactive dye – cold brand	
4	Acid dye	
5	Basic dye	
6	Disperse dye	
7	Mordanting a) Premordanting b) Simultaneous Mordanting c) Post Mordanting	
8	Natural dye - Vegetable dyes a) Prepare a sample with natural mordant b) Prepare a sample with synthetic mordant	

Text Book :

1. *Shenai V.A." Technology of textile processing" 1981, Sevale publications, Bombay. Vol. III, V, VI, VII*

Reference Books:

1. *Arora.MG, A Text book of Dyes, 1996, Anmol Publications Pvt. Ltd*

2. *H.Panda, Modern Technology of Textiles Dyes and Pigments, 2016, Asia Pacific.*

Code No	Subject	Semester No
16CDU23	INDUSTRIAL TRAINING	IV
Objective:	To Gain knowledge on the Apparel manufacturing / Processing Industry.	
	Students should go for an observational training in apparel manufacturing industry or dyeing, Printing, wet processing industry for two weeks and submit the report.	

Code No	Subject	Semester No
16CDU24	COMPUTERS IN THE GARMENT INDUSTRY	V
Objective Unit No	To update the current concept technology used in fashion industry. Topics	Hours
Unit I	Introduction to Computers: Classification of computers, computer generations, computer specification, organization of computer sections .Types of storage devices (primary and secondary), Input devices, output devices.	10
Unit II	Role of Computers: Role of computers in fashion industry – Information flow – CAD, CAM, CIM, CAA, PDC – Definition and functions. Computers in production planning and production scheduling, computerized colour matching system	10
Unit III	Computers in Designing: CAD in designing Textile designing – Weaving , Knitting and printing. Creating embroidery designs. Garment designing – 2D and 3D forms.	10
Unit IV	Computers in Pattern Making: CAD in pattern making and grading – system description – information flow – process involved in pattern making, process involved in pattern grading.	9
Unit V	Computerized Machines: Computer application in fabric defect checking, laying / spreading, cutting marker planning, labeling – parts and functions. Computerized sewing machines.	9

Text Book :

1. Dr. R. Sheela John & Dr. S. Ansamani, *Computers in the Garment Industry*, 2013, published by Shanga Verlag

Reference Books:

1. Hannelore Eberle et – al, *Clothing Technology* – Verlaag Europa – Lehrmittel, Vollmer GmbH & Co 4287, Haan – Gruilen.
2. P K Sinha , *Computer Fundamentals* – BPB Publications, Delhi (1992)
3. Harold Carr and Barbara Latham *The technology of clothing manufacture* – Blackwell publishers

Code No	Subject	Semester No
16CDU25	FABRIC PRODUCTION & PROCESSING	V
Objective	To teach the techniques involved in fabric production & processing.	
Unit No	Topics	Hours
Unit I	Weaving Weaving Definition – Terms related to woven fabric – Classification of Looms – Sequencing of weaving preparation process – Passage of material through plain loom – Important motions of a loom – Parts of a Loom – Introduction to woven fabric Design and their derivatives.	12
Unit II	Knitting Terms. General terms and principles of knitting technology, machine knitting, parts of machine, knitted loop structure, stitch density.	12
Unit III	Weft Knitting. Weft knitting – classification-circular rib knitting machine, purl, interlock, jacquard-single jersey machine- basic knitting elements-types and functions – knitting cycle, CAM system 3 way technique to develop design- knit, tuck, miss-effect of stitches on fabric properties.	12
Unit IV	Processing. Introduction to Processing – Study of preparative process of dyeing and objectives – Dyes and pigments - Classification – Principles and methods of knitted fabrics – Concept of Tie & Dye methods – Study on garment dyeing.	12

Unit V	Printing Printing – Comparison of Dyeing and Printing – methods of Printing – study of screen and Rotary Print. Styles of Printing – Study of non conventional printing styles employed in garment printing – Principles and working of garment printing machines. Printing ingredients and model recipe formulation. Need and objectives of finishing – Classification – Brief Study of various mechanical and chemical finishers.	12
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Text Book :

1)D.B. Agarkar, *Knitting Technology*, 1998, Universal Publishing Corporation, Mumbai.

Reference Books:

- 1) David.J.Spencer, *Knitting Technology*, 1989, Wood head Publishing Limited, Second Ed, England,.
- 2) Shenai.V.A, *Technology of Bleaching and Mercerising*, Sevak Publications, Mumbai.
- 3) E.R.Trotman, *Textile Scouring & Bleaching*, 1968B.I Publications Private Ltd, New Delhi,.

Code No	Subject	Semester No
16CDU26	TEXTILE FINISHING TECHNOLOGY	V
Objective	To update the process of Finishing on Textiles.	
Unit No	Topics	Hours
Unit I	Production Sequence: Production sequence of textile fabrics – flow chart – brief description. Finishes – classification – Importance of finishes – application methods	14
Unit II	Mechanical Finish Mechanical finishes – methods and applications; Aesthetic finishes: Luster – glazed, moiré, schreiner, embossed; Drape – crisp and transparent, burnt out, sizing, weighting; Texture sheared, brushed, embossed, plisse, pleated, flocked, embroidered, napped, fulled;	14
Unit III	Functional Finish Functional finishes – methods and applications – wrinkle free finishes, water repellent finish, flame retardant finish, rot and mildew proof finish, antistatic finish, and soil release finish.	14

Unit IV	Special Finish Special purpose finishes – methods and applications – silicone finish, denim finish – stonewash and enzyme wash; fragrance finish, UV protection finish, anti bacterial finish, and phase change finishes.	15
Unit V	Recent Trends and ETP Introduction to Technical Textiles - Definition and scope of technical textiles and its Classification. Environmental pollution during chemical processing of textiles. Treatment of textile effluents.	15

Text Book :

1. V.A.Shenai, *Textile Finishing..*

Reference Books:

1. Billie J.Collie, Phyllis G.Tortora, *Understanding Textiles*, ,Prentice Hall, 6th edition
2. Sara.J.Kadolph and Anna .L.Langford, *Textiles*,2000.
3. R.S.Prayag, *Textile Finishing*.

Code No	Subject	Semester No
16CDU27	PRACTICAL - XIII – COMPUTER AIDED FASHION DESIGNING	V
Objective	To update the current technology in computer designing.	
No		
1	Ms Word Create a new document, Open, save and print a document, Edit and format text, Change the page layout, background and borders, Insert headers and footers, Insert and edit tables, Insert clip art and pictures to documents, Perform a mail merge, Share and review shared document files. Power Point Presentation	

2	Ms Excel Organize, sort, and record data, Enter in text and mathematical equations, Keep, track, chart, graph, and compare statistics, Maintain records, Create mathematical equations and functions to accurately keep records and statistics whenever data changes.
3	Designing Logos and Labels Create logos for branded companies. Create label for garments / companies. Application of colour harmony in Design. Applications of Principles of design in dress design.
4	Children' s Garments Jabla- different styles; Frocks- different styles
5	Women' s Garments Churidhar- different styles ; Full gowns - different styles
6	Men' s Garments S B vest T- Shirt - different styles; Shirts - different styles

Text Book:

1. Jennifer Fulton, Joe Kraynak, *The Big Basics Book of Microsoft Office 97*, Sherry Kinkoph.
2. Ray Werner, *First book of corel draw*, Alpha book publishers, 1972.

Reference:

1. Sehgal, *Lets log in*, 2006, Dorling Kindersley,.
2. Jack Nimersheim *First Book of Microsoft Wndows*, 1990, Sams publishers.

Code No	Subject	Semester No
16CDU28	PRACTICAL - XIV – GARMENT DRAPING	V
Objective	To develop the skill of draping for various garment designs.	
Exercise No	Topics	
1	Introduction to draping and dress forms	
2	Draping basic front and back	

3	Draping basic sleeve
4	Draping basic skirts – pleated, Gathered and Flared
5	Draping collars- Peter pan, Mandarin and Shirt Collar
6	Draping yokes, Shirt yoke and midriff yoke

Reference Books:

- 1) *Hilde Jaffe, Draping for Fashion Design, Pearson prentice Hall, 2012, Fifth Edition.*
- 2) *Helen Joseph Armstrong, Draping for Apparel Designing, Bloomsbury Academic, 2009.*
- 3) *Martha Gene Shelden, Design through Draping, Burgess Pub.,co., , 1974.*

Code No	Subject	Semester No
16CDU29	Elective I (a) PRACTICAL - XV – TEXTILE HAND PRINTING TECHNIQUES	V
Exercise Objective	To gain knowledge on the Topics involved in hand printing of textiles.	
No		Page 41 of 41

1	Block a) Wooden b) Vegetable
2	Screen printing
3	Stencil a) Spraying b) Sponging c) Painting
4	Batik - Any 3 methods
5	Tie & dye a) Tieing b) Knotting c) Folding
6	Fabric Painting Different tones and strokes

Reference Books:

1. *Anita Tyagi, Textile designs – Dyeing and pattern making for fashion.*
2. *Seema Kapoor, Dyeing of textile Material.*

Code No	Subject	Semester No
16CDU29	Elective I (b) ENTREPRENUERSHIP IN FASHION INDUSTRY	V
Objective	To understand the entrepreneurship in Fashion Industry.	
Unit No	Topics	Hours

Unit I	Concepts: Concept of Entrepreneurship: Definition Nature and Characteristics of Entrepreneurship - Functions and types of Entrepreneurship phases of EDP. Development of women Entrepreneur and rural Entrepreneur - including self employment of women council scheme. Ethical, Political, cultural, Regional, Technological and social responsibility- ethics and business decision.	10
Unit II	Project: The Start - up process, Project Identification - Selection of the product - Project formulation evaluation - Feasibility Analysis, Project Report. Nature and objectives of business - legal forms of business of ownership - sole trader, partnership, company and co-operative societies - advantages and limitation.	10
Unit III	Cost Accounting: Cost accounting - elements of cost, classification of cost - preparation of simple cost sheet (problem) - accounting for overheads - classification of overheads, allocation and apportionment of overheads - reapportionment of service department cost to production department, absorption of overheads	10
Unit IV	Boutiques: Knowledge of Fashion Trends, Brands and Designers, Introduction to international designers, Business opportunities and avenues, Interdepartmental relationship for merchandiser, Boutique handling.	9
Unit V	Institutional Services : Institutional service and finance to Entrepreneur - DIC, SIDO, NSIC, SISI, SSIC, SIDCO, ITCOT, IIC, KUIC and commercial Bank. IFCI, SFC, IDBI, ICICI, TIIC, SIDCS, LIC and GIC, UTI, SIPCOT - SIDBI and commercial Bank venture capitals. Incentives and subsidies - Subsidized Services - Subsidy for market. Transport - seed capital assistance - Taxation benefit to SSI - role of Entrepreneur in export promotion and import substitution.	9

Text Book:

1. *Renu Arora and S.K.Sood, Fundamentals of Entrepreneurship and small Business .*

Reference Books:

1. *C.B. Gupta and N.P. Srinivasan, Entrepreneurial Development .*
2. *S.S.Khanka, Entrepreneurial Development .*
3. *P.SaravanaVel, Entrepreneurial Development .*

Unit No	Topics	Hours
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	Introduction: Introduction and understanding to fashion merchandising, Requirements and responsibilities of a merchandiser, Role of a merchandiser, fashion merchandising terminologies. Types of Merchandising - Export House - manufacturer - Buying house, Buying Agency-Selection of Buyers & Buying Agency.	
Code No 16CDU30	Subject FASHION MERCHANDISING	Semester No VI 12
Objective	To gain knowledge on fashion merchandising and marketing.	
Unit II	Buying activity: Pre-buying Activity, Fabric types, properties and Behavior, selection of Fabric, Garment construction, Quality requirements; quality problems, Merchandiser's role after production, Delivery date extension, transport delays - Natural calamities, Importance of LC amendments.	12
Unit III	Marketing Analysis: Marketing analysis - Advertising and Media Planning, Fashion shows and other events, Industry tour and Project. Role play, Surveys and organizing of exhibitions.	12
Unit IV	Sales Promotion: Branding – Introduction and types, Fashion sales promotional programme for apparel marketing, Personal selling, point of purchase, sales promotion – Objectives and methods.	12
Unit V	Advertising: Fashion advertising and preparation of advertising for apparel market, Advertising media used in apparel market – advantages and limitations, advertising department – structure and functions, advertising agencies – structure and functions, advertising budget.	12

Text Book :

1. Stephens Frings, *Fashion From Concepts to Consumer*, Prentice Hall, 7th Edition.

Reference Books:

1. Harold Carr and John Pomeroy, *Fashion Design and Product Development*, (1992) Black well Science Inc, Cambridge.
2. Mike Basey, *Fashion marketing*, (1995 Oxford University press, Wynford Drve, Don Mills, Ontario) ..
3. *Introduction to Fashion*, (1992), B T Batsford Ltd, Ireland, Fullham road, London

16CDU31	PRACTICAL -XVI – FASHION PHOTOGRAPHY	VI
Objective	To understand the concepts involved in fashion photography	

Exercise No	Topics
1	Camera & Types: Essential parts of a camera. Lenses of different focal lengths – Merits and demerits various accessories and uses. Composition and general principles. Filters different types and uses.
2	Different Light Sources and Comparative Study: Quality, Temperature, effects of different light sources and their effects in photography.
3	The colour spectrum Visible colour spectrum colours – Primary, Secondary and Complementary, colours in photography
4	Understanding The Human Body: Importance of certain parts of the body in recording fashion, concepts of body language, fashion – glamour, feelings, emotions.
5	Introduction to studio lights and effects: Theory and practical. Measuring light using a flash meters effects. Measuring light using a flash meter.
6	Make up: Corrective and glamorous. Its importance and application with specific objectives.
7	Different lightings in the studio and effects of lighting with specific purpose: Lighting for different types of photography. Theory and practical on a dummy/model. Importance of background in a studio.

References:

1. Tom Grimm *The Basic Book of Photography: Fifth Edition.*
2. Luis E Gonzalez, *Fashion photography selling to magazines, 2012.*

Code No	Subject	Semester No
16CDU32	PROJECT WORK	VI
Objective	To understand the concepts involved in Fashion Presentation	Portfolio
1	<p>Portfolio development and presentation technique;</p> <p>To be planned for a season or occasion</p> <p>Mood board, Story board, Fabric board, colour board – to be presented separately or in a combined form</p> <p>Fabric development chart Design development chart Final presentation Number of garments in a collection – 4-6 garments.</p>	72

HINDUSTHAN COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)
COIMBATORE 641 028.
MSC. COSTUME DESIGN & FASHION

SCHEME OF EXAMINATIONS – CBCS PATTERN

(For the students admitted from the academic year 2016 – 2017 and onwards)

CODE NO	SUBJECT	LECTURE HRS/ WEEK	EXAM DURATION (HRS)	MAXIMUM MARKS			CREDIT POINTS
				IE	EE	TOTAL	
First Semester							
16CDP01	Research Methodology	6	3	25	75	100	5
16CDP02	Costumes of world	6	3	25	75	100	4
16CDP03	Practical I – Advanced Fashion Illustration	6	3	40	60	100	4
16CDP04	Practical II - Advanced Draping Techniques	6	4	40	60	100	5
16CDP05	Practical III- Advanced Textile Printing	6	4	40	60	100	5
Second Semester							
16CDP06	Indian Textile Industries	6	3	25	75	100	4
16CDP07	Technical Textiles	6	3	25	75	100	4
16CDP08	Home Textiles and Furnishing	4	3	25	75	100	4
16CDP09	Practical IV – Advanced Garment Designing	6	4	40	60	100	5
16CDP10	Practical V – Advanced Garment Ornamentation and	6	3	40	60	100	4

	Accessories Making						
16GSP01	<u>Skill Based Subject :</u> Cyber Security	2	-	100	-	100	2
Third Semester							
16CDP11	International Trade & Documentation	6	3	25	75	100	4
16CDP12	Textile Testing	6	3	25	75	100	5
16CDP13	Practical VI - Textile Testing	6	3	40	60	100	5
16CDP14	Practical VII - Computer Aided Fashion Designing	6	3	40	60	100	4
16CDP15	Elective I (a): Practical VIII - Home Textiles and Furnishing (or) (b): Practical VIII - Garment Care and Labelling	6	4	40	60	100	4
16CDP16	Industrial Training	-	-	100	-	100	3
Fourth Semester							
16CDP17	Global Fashion Merchandising	6	3	25	75	100	4
16CDP18	Practical IX - Fashion Photography	6	3	40	60	100	5
16CDP19	Elective II: (a)Practical X - Beauty Care (or) (b)Practical X - Visual Merchandising	6	3	40	60	100	4
16CDP20	Project Work	2	-	50	150	200	6
							90

REGULATIONS

1. Breakup Marks for IE (Theory papers)

One Test - 5 Marks

Model Exam- 10 Marks

Assignments - 5 Marks

Seminar - 5 Marks

Total - 25 Marks

Question Paper Pattern for IE test I

(for 50 Marks) (2 hours)

Section-A (18 Marks)

$3 \times 6 = 18$ Marks

Answer **ALL** Questions

Either or Type

ALL questions carry EQUAL Marks

Section-B (32 Marks)

$2 \times 16 = 32$

Marks

Answer any **TWO** Questions out of three questions.

ALL	questions	carry	EQUAL	Marks
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Marks	Total	50
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Question Paper Pattern for IE Model Exam

(for 75 Marks) (3 hours)

Section-A (30 Marks)

$5 \times 6 = 30$ Marks

Answer **ALL** Questions

One Question from each unit with **Either or Type**

ALL questions carry EQUAL Marks

Section-B (45 Marks)

$3 \times 15 = 45$

Marks

Answer any **THREE** Questions out of five questions.

ALL questions carry EQUAL Marks

Total

75 Marks

2 a) Components for Practical I. E.

Components	Marks
Test - I	20
Test - II	20
Total	40

2 b) Components for Practical E. E.

Components	Marks
Completion of Experiments	50
Record	5
Viva	5
Total	60

3. Institutional/ Industrial Training, Mini and Major Project Work

Institutional / Industrial Training**

Project Work

Components	Marks	Components	Marks
I.E Work Diary Report Viva – voce Examination	25 50 25	I.E a) Attendance Marks 20 b) Review Marks I 10 c) Review Marks II 10 d) Review Marks III 10	50
Total	100		
		E.E* a) Final Report Marks 120 b) Viva-voce Marks 30	150
			Total 200

*2 hours / candidate/week for Project Work.

**Evaluation of report and conduct of viva voce will be done jointly by Internal and External

Examiners

** Industrial training for 2 weeks

4. Components for Cyber Security Paper

Components	Marks
Two Tests (2 x 40)	80
Two assignments (2 x 10)	20
Total	100

The question paper pattern is as follows:

e) Test I – 2 hours [4 out of 7 essay type questions] 4 x 10
= 40 Marks

f) Test II – 2 hours [4 out of 7 essay type questions] 4 x 10
= 40 Marks

Total = 80 Marks

- The passing minimum for Cyber Security is 50

- In case the candidate fails to secure 50 marks which is the passing minimum he/she may have to reappear for the same in the subsequent semesters.

5. Question Paper Pattern for EE Theory

(for 75 Marks) (3 hours)

Section-A (30 Marks)

5 x 6=30

Marks

Answer ALL Questions

One Question from each unit with Either or Type

ALL questions carry EQUAL Marks

Section-B (45 Marks)

3 x 15=45

Marks

Answer any THREE Questions out of five questions.

ALL questions carry EQUAL Marks

Total 75 Marks

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Unit No	Topics	Hours
I	Research & its types: Meaning of Research - Types of Research - Significance of Research - Research Process. Defining, the Research Problem - Sources, Identification, Selection and Statement, Review of related literature	15
II	Research Design: Research Design - Meaning, Different research designs, Basic Principles of experimental designs. Developing a Research Plan. Sampling: Census and sample survey, Steps in	15

	sampling design, criteria for selecting a sampling. Procedure, characteristics of a good sample design, different types of sample designs.	
Code No 16CDP01	Data Collection: Subject Methods of Data collection - observation, Questionnaire, Interview, Data processing and RESEARCH METHODOLOGY	Semester No 15
Objective	To train students in documenting research findings, Graphical, representation and data analysis.	
IV	Statistics Meaning and scope of statistics. Role of statistics in research, measures of central tendency and dispersion, Co-relation, Co-efficient of Correlation and its Interpretation, rank Correlation, regression equation and predictions.	15
V	Elements of testing of a statistical hypothesis, formulation of the problem Definition of type -I and type-II errors, Levels of significance large sample test for proportions. Difference in proportions for means and difference in means. Application of students test for small samples for single mean, difference in means- test for equality of variance. Non - parametric test, Application of Chi-square test, ANOVA test.	12

Text Book:

1. C R Kothari, *Research Methodology*, Published by K K Gupta for New Age International (P) Ltd, New Delhi

Reference Books:

1. Hort Reinhart, *Introduction to Research in Education*, Ary, (1982).
2. Best J N, *Research in Education*, (1979) Prentice Hall, Delhi
3. S P Gupta, *an Introduction to Statistical Methods*, Vikas Publishing House, New Delhi.

Unit No	Topics	Page 53 of 53 Hours

I	Costumes of America America -Inuits and Aleuts, American Indians of the southwest, American Indians of Plains and northwest, Amish costumes, Guatemala, Mexico, Colombia, Peru and Bolivia, Chile and Brazil.	15
II	Costumes of Europe European countries - Egypt, Greece, Roman, Norway, Sweden Denmark, Scotland, Austria, Switzerland, Hungary, Poland, Ukraine	15
Code No 16CDP02	Subject COSTUMES OF WORLD	Semester No I
Objective III	Costumes of Far Eastern Countries To gain knowledge on the history of various costumes used in the Far Eastern Countries - Mongolia, China, , Japan, North and South Korea, Sri Lanka, Pakistan, Burma, Thailand, Philippines	15
IV	Costumes of Africa Africa- Costumes of North, East, West and South.	15
V	Costumes of Middle East Middle East Countries Turkey and Iran, Costumes of Arab Peninsula.	12

Text Books :

1. *Historic Costume*, Chas A, 'Bernard and Co, illinois (1961)

References Books:

1. *Costumes of Indian and Pakistan*, Das S N, D B Taraporevala Sons & Co, Bombay
2. *Costume through the Ages*, Laver, James Simon and Schuster, New York (1968).
3. *Costumes throughout the Ages*, Eoan C C, J B Lippincott

Exercise No	Topics

1	Arrange few of different types of objects (geometric objects and Organic objects) from composition point of view and study of draping.	
2	Creating checking effects in a garment one and more than one colour a)Men b) Women c) Child	
3 Code No	Creating printed effects in a garment one colour and more than one colour a) Men b) Women c) Child	Semester No
16CDP03	Practical garment ADVANCED FASHION ILLUSTRATION sketches the following topics:	
Objective	to Develop the skill of illustrating fashion concepts. a) Winter b) Summer c) Fashion d) Traditional garment of any four states e) North India f) South India g) Middle east h) Middle west	

Text Books:

1. Drudi Elizabeth and Pal, *Figure Drawing for Fashion Designers*.

Reference Books:

1. *Fashion Design Drawing & Presentation*, Ireland Patrick John.

2. Drudi Elizabeth and Pal *Fashion design Illustration: Children*, Ireland.

3. Patrick John, *Fashion Design Illustration: Men*, Ireland.

Exercise No	Draping of Garments for the following topics
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1)	a) Pleated skirt b) Gathered Skirt - children or women c) Flare skirt d) Hip Yoke skirt - children or women	
Code No 16CB05	a) Plain Sleeve b) Puff Sleeve - any type of garment c) Bishop Sleeve d) Leg sleeve	Subject PRACTICAL - II - ADVANCED TEXTILE PRINTING Semester No Semester No
Code No 5 POLD04 3) e	TOP PRACTICAL COURSE ADVANCED DRAPING TECHNIQUE a) Practical knowledge of advanced draping techniques. b) Advanced draping techniques for any type of garment	Subject TOP PRACTICAL COURSE ADVANCED DRAPING TECHNIQUE Semester No Semester No
Objective	To develop the skill of any type of garment pattern through draping.	
4)	Create anyone of the following garment for a girl child a)Yoke frock b) Baba suit - with bib c) Middi and middi top Create anyone of the following garment for a boy child. a) T-shirt and shorts b) Kurta and Pyjama c) ¾ pants and Tops	
5)	Create anyone of the following for an teenagers a)Full Gown b)Salwar Kameez c)Lachaas - Flowing skirt and short tops d)Middi and Tops	

Reference Books:

1. Hilde Jaffe, *Draping for Fashion Design*, Pearson prentice Hall, 2012, Fifth Edition.
2. Helen Joseph Armstrong, *Draping for Apparel Designing*, Bloomsbury Academic, 2009.
3. Martha Gene, *Design through Draping*, Shelden Burgess Pub.,co., , 1974.

Exercise No	Topics
1	Design and construct a garment with Tie and Dye Print

2	Design and construct a garment with Batik Print
3	Design and construct a garment with Stencil Print
4	Design and construct a garment with Block Print
5	Design and construct a garment with Screen Print
6	Design and construct a garment with Fabric Painting

Reference Books:

1. Corbmann B.P, *Textiles – fibre to fabric*, 1985, international student's edition, Mc graw hill book company, Singapore..
2. Laurie wisbrun, *The complete guide to designing and printing fabric*.
3. Pepin Van Roojen, *Indian textile print*, 1999, Pepin Press.

Unit No	Topics	Hours
I	Introduction to Indian Textile Industry Origin, Growth and Development of Indian Textile	12

	Industry - Cotton, Wool, Silk, Rayon, Man- Made Textiles, Ready made garments	
	Textile Organisation & its plans	
Code No	Five year plans for textile Industry - Recent plans and previous	Semester No
16CDP06	TECHNOLOGICAL DEVELOPMENTS in textile organizations related to the Textile Industry	Semester No 12
Objective	To give knowledge on current trend in smart textiles, M&A in textile industry, global market concept of GATT, II	
Objective	Technological Developments in Fiber Industry	
III	Technological developments in Fibre Industry, Significance and uses. Technological developments in Yarn Industry, significance and uses.	12
IV	Technological Developments in Fabric industry Technological developments in Fabric Industry -woven, significance and uses. Technological developments in Fabric Industry - knitting, significance and uses, Technological developments in Garment Industry, significance and uses	12
V	Technological Developments in printing Industry Technological developments in Printing and Dyeing Industry, significance and uses Technological developments in Processing Industry, significance and uses	12

Text Books:

1. *Bernard P Corbman, Textiles - Fiber to fabric, Mc Graw Hill Book Co, Singapore, 6th edition.*
2. *Peter Schwartz, Trevor Rhodes, Mansour Mohammed, Fabric forming systems, (1996), Noyes' Publications, New Jersey, USA .*

Reference Journals:

1. *Fabric Care, Norma D'Souza, New Age International Pvt Ltd, New Delhi Journals*
2. *Indian Textile Journal- Business Press P. Ltd, Maker Tower B-18 floor, Cuffparade,*
3. *Indian Cotton Mills Federation - ICM- Textile Centre 34 P-d, Mello Road, Mumbai.*

Unit No	Topics	Hours
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I	Technical Textiles Definition and Scope, Applications, Globalization and Future of technical textiles industry. High – Strength and high-modulus organic fibres, high chemical and combustion - Resistant fibres, high performance inorganic fibres, ultra-fine and novelty fibres.	12
II	Medical Textiles Classification – Hygiene Textiles – Wound care products – Surgical Textiles. Medical Products – Vascular grafts – Cardiac supportive devices – Embroidered implants. Implantable medical textiles – Tissue engineering – Biomedical Textiles – Antibacterial Textiles – Antimicrobial wound dressings.	12
III	Geotextiles Classification, Functions, Design, Properties, Raw materials, and Applications. Agro Textiles – Need for Agro Textiles, Properties Required, Types of Agrotech products and their application, Fibres used, types, properties and functions. Filtration Textiles - Theory of dust collection, cleaning systems, fabric selection for dust collection, finishing treatments; solid, liquid separation, fabric selection - filtration, requirements, yarn and fabric construction for filter fabrics, finishing treatments. Architectural and Construction Textiles: Fabrics used - applications of coated fabrics in building structures, awnings and canopies, textiles for roofing materials.	12
IV	Safety and Protective Textiles Thermal insulation materials; study of water vapour permeable / water proof materials, military combat clothing systems; camouflage textiles, UV wave band, visible wave band, visual decoys; infrared camouflage; protective textiles against micro organisms, chemicals and pesticides, evaluation technique. Military and Defence Textiles: Protective clothing, Textiles used in defence systems, other applications. Transportation: Fibre requirements – fibre, plastic composites; textiles applications in all kinds of road transport vehicles, rail, aircrafts, marine.	12
V	Sports and Recreation Textiles Introduction, fibers used, Types, functions and properties, Characteristics and Applications of Sports Tech. Smart Textiles - Components, Classification - Active smart, passive smart and very smart textiles. Intelligent Textiles - Phase change materials, shape memory polymers, chromic and conductive Materials and its applications in various fields.	12

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TECHNICAL TEXTILES

Text Book:

1) A R Horrocks and S C Anand, *Hand book of Technical textiles – 2000*, Wood head publishing ltd, England.

Reference Books:

1) N. Gokarneshan, D. Anitha Rachel, *Emerging Research Trends in Medical Textiles*, Springer, 2015 .

2) Roger Chapman, *Smart Textiles for Protection*, Wood head publishing, 2012

3) Lieva Van Langenhove, *Smart Textiles for Medicine and Healthcare: Materials, Systems and Applications*, Wood head publishing, 2007.

Unit No	Topics	Hours
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I	Introduction: Introduction Home Textiles: Definition, Trends, Potentials	10
II Code No 16CDPO 8	Classification: Classification of Home Textiles – Bed, Table, Kitchen, Dining, curtains and draperies Subject HOME TEXTILES AND FURNISHING	10 Semester No III
Objective	To gain knowledge on the current trend in home textiles and study Designing and Drafting. Curtains, Bed linen, Table Linen their potential	
IV	Layout: Arrangement of furniture- Layouts – low income, middle income and high income for various rooms – living room bed room dinning room wall papers.	9
V	Carpets: Carpets , door mats, wall hangings – fabric used current trends and embellishment used.	9

Reference Books:

1. *Stewart and sally Walton, Interior decorating effects, 2000, Lorenz books.*
2. *Candace ord manroe, The book of upholstery, Pub – 1987 present books.*
3. *Design and detail, the Practical guide to sayling a house, Tricia Guild of Elizabeth Whide.1st pub conran octopus limit.*

1	Designing 3 garments using the following features a) Gathers – in sleeve (or) Skirt (or) yoke etc., b) Flare - in sleeve (or) Skirt (or) yoke etc., c) Pleats - in sleeve (or) Skirt (or) yoke etc.,	Page 61 of 61
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2	Designing and constructing 2 mens shirt using textile printing. (Ex: Line, Shape, Colour)	
Code No 16CDP09	Subject PRACTICAL - IV - ADVANCED GARMENT a) Pregnant women b) Visually challenged c) Physically disabled / (or) any theatre DESIGNING	Semester No II
Objective	To gain knowledge on the current scenario of the textile industry Designing garment for a character in a drama Designing garment for a character in a drama	
5	Designing garment for Party wear / Fashion show and prepare a portfolio for the same.	

Text Book:

1. *Zarapker system of cutting* – Zarapker. K. r., Navneet publications Ltd.

Reference Books:

1. *Mary Mathews, Practical clothing construction - (1986), cosmic press Chennai, part I and part-II.*
2. *Gerry cooklin, Pattern Grading for women' s clothing, The technology of sizing – (1990) Blackwell Science Ltd.*
3. *Eshwasri Anwahi, Practical cutting and tailoring part II Lakhraj Hans R.B Publications, Delhi.*

Exercise No	Preparation of sample for the following using current trends
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1	Patch work – Kalankari, Embroidery etc.,	
2	Bead work , Stone work.	
3	Aari work	
Code No	Subject	Semester No
16CDP10 5	PRACTICAL- V -ADVANCED GARMENT ORNAMENTATION Painting AND ACCESSORIES MAKING	II
Objective 6	To gain knowledge on the current trend of embellishment for Embossing and Embossing application in 3 stages of India	
7	Preparation of Accessories a) Bag b) Belt c) Purse	

Text Books:

1. *Mary Mathews, Practical Clothing Construction Part-II. Designing, Drafting and Tailoring, 1991, Bhattarams Reprographics (P) Ltd., Chennai.*
2. *Zarapkar K.R, System of Cutting, 2005, Navneet Publications India.*

References Books:

1. *Scientific garment quality – K Millege and Sons , Plot No. 43 , Somvar Peth pune 411011*
2. *Easy cutting – Juvekar commercial Tailors Corporation pvt 166 Dr. Ambedkar Road.*
3. *Commercial system of cutting - Juvekar commercial Tailors Corporation pvt*

Unit No	Topics	Hours
I	Introduction to Trading: Need for international Trade – Features –	12

	Advantages – Problems of foreign trade	
Code No 16CDP11	Frame Work: International trade documents – Regulatory frame work – Foreign trade documents – Regulatory & Commercial documents on letters of credit in international trade.	Semester No 12
Objective	Commercial knowledge on letters of credit in international trade.	Semester
16CDP11	INTERNATIONAL TRADE AND DOCUMENTATION	III
Objective	Export Procedures: To gain knowledge on the concept of global trading and Export procedures – getting established as an exporter – entering into export contract – Execution - post shipment procedures – Export promotion measures – Incentive and facilities to exporters	12
IV	Import Procedures: Import procedures - Import process – Customs clearance for imports – role of custom and exercise in international trade.	12
V	Recent Developments: Recent developments in foreign trade – WTO - globalization – EXIM policy – regional trade agreements – current trends in international trade.	12

Text Books:

1. *International Trade and Export Management (2008)* Francis Cherunilam Himalaya publishing house – New Delhi.

Reference Books:

1. Jeevanandam C, *Foreign Trade (2005)* Sultan Chand & Sons – New Delhi.
2. Edward. G. Hinkelman *International Trade Documentation: The Documents of Exporting, Importing, Shipping and Banking* – 2010.
3. Vijesh Jain, *Establishing Exports & Imports Business in India* , 2015

Unit No		Hours

I	Terminology of Testing Introduction to testing - terminology of testing - selection of samples for testing standard R H and temperature for testing - measurement of moisture regain conditioning oven - Shirley moisture Meter	12
II	Fiber testing 1. Cotton fiber length - Baer Sorter 2. Fineness - Air flow principle instruments, Sheffield Micronaire 3. Maturity - Caustic Soda swelling 4. Strength - Pressley bundle strength tester, Stelometer 5. Determination of trash and lint in cotton - Shirley trash analyzer	12
III	Yarn Testing 1. Yarn numbering system- conversion of count from one system to another 2. Instruments for count determination - quadrant balance, Beesley balance 3. Yarn strength testing - Principles of CRT, CRL, CRE - Single strength tester, Lea strength tester . 4. Yarn twist - Direction of twist, twist multipliers, Twist testers - tension type, A TIRA direct type tester 5. Yarn evenness - classification of variation, methods of measuring evenness - black board, ASTM Standards, Uster evenness tester, Uster Standards, Yarnfaults, classifications, Classimat 6. Yarn hairiness and crimp testing	12
IV	Fabric testing 1. Fabric Particulars – length, width, crimp, weight, cover factor 2. Fabric Strength – fabric tensile strength tester, tearing strength tester, hydraulic bursting strength tester 3. Fabric Abrasion – resistance, handle, serviceability, assessment, Martindale abrasion tester 4. Fabric Pilling – I C I Pill box tester 5. Fabric drape – Measurement, Drape meter 6. Fabric Stiffness – Shirley stiffness tester 7. Fabric crease resistance and crease recovery measurements 8. Fabric permeability – Shirley air permeability tester, fabric water permeability tester, Bundersmann tester	12
V	Colour Fastness in Textiles - Crocking test, perspiration test, sunlight, laundering, pressing and dry cleaning aspects, whiteness index, matching cabinets, computer matching	12

TEXTILE TESTING

Text Books:

1) *Textile Testing*, Angappan P and Gopalakrishnan R, SSM Institute of textile technology, Komara Palayam

Reference books:

1) *Principles of textile Testing*, Booth J E, Hoybooks, London (1970).

2) Marjorie A Taylor, *Technology of textile properties*, Forbes publications Ltd, London (1972).

3) Mshra S P and Kesavan B K, *Fiber Science*, SSM Institute of textile technology, Komara Palayam

Code No	Subject	Semester No
16CDP13	PRACTICAL- VI – TEXTILE TESTING	III
Objective	To gain knowledge in various equipments used testing textile fabric.	

Exercise No	Perform tests to determine the following physical properties for the given samples
1	Tensile Strength
2	Stiffness
3	Abrasion Resistance
4	Crease Recovery
5	Bursting Strength
6	Shrinkage
7	Colour Fastness test using crock meter
8	Colour Fastness test using perspirometer
9	Colour Fastness using Laundrometer / Wash test

Text Books:

1)Angappan P and Gopalakrishnan R, *Textile Testing*, SSM Institute of textile technology, KomaraPalayam

Reference Books:

1)Booth J E, *Principles of textile Testing*, (1970) Hoybooks, London

2)Marjorie A Taylor, *Technology of textile properties*, (1972) Forbes publications Ltd, London

3)Mshra S P and Kesavan B K, *Fiber Science*, SSM Institute of textile technology, Komara Palayam

Code No	Subject	Semester No
16CDP14	PRACTICAL- VII – COMPUTER AIDED FASHION DESIGNING	III
Objective	To update the role of computers in apparel industry.	

Exercise No	Topics
1	Design a collection with a theme 2 collections with 4 designs
2	Create garment designs with special effects Screen print Batik Tie and dye
3	Pattern making, Grading and marker planning for the Children' s garments: Yoke frock / Baba suit Summer frock / Skirt and tops
4	Prepare pattern making, Grading and marker planning for the Women' s garments: Salwar / Kameez / Tops Nightie / Princess line dress
5	Prepare pattern making, Grading and marker planning for the Men' s garments: Slack shirt / Full sleeve / T-Shirt Bermudas / Pleated trouser / Bell bottom

References:

1. Ray Werner, *First book of corel draw*, Alpha book publishers, 1972.
2. Shirish Chavan, *Rapidex DTPcourse*.
3. Gary David Bouton, *CorelDRAWX7: The Official Guide*, 2014, corel press,

Code No	Subject	Semester No
16CDP15	Elective I (a) – PRACTICAL - VIII – HOME TEXTILES AND FURNISHING	III
Objective	To Evaluate the skill designing & producing Home Textiles.	

Exercise No	Designing & construction of the following Home Textile Products
1	Bed Spread
2	Pillow Covers
3	Cushion Covers
4	Table cloth - straight and circular table cloth - Napkins
5	Table Mats
6	Tea cosy
7	Mtens
8	Apron
9	Curtains – Pleated, Gathered Window and Door.
10	Bread Basket

Reference Books:

1. *Stewart and sally Walton, Interior decorating effects, 2000, Lorenz books .*
2. *The book of upholstery, Candace ord manroe Pub – 1987 present books.*
3. *Design and detail, the Practical guide to sayling a house, Tricia Guild of Elizabeth Wilhide.1st pub conran octopus limit.*

Code No	Subject	Semester No
16CDP15	Elective I (b) PRACTICAL – VIII – GARMENT CARE AND LABELLING	IV
Objective	To train students to identify and remove different types of stains.	

Exercise No	Topics
1	1. Manufacturing of soap (Hot & Cold Process)
2	2. Starching Process (Hot & Cold Process)
3	3. Laundry Blue
4	4. Principle of washing
5	5. Landry of different fabric.
6	6. Dry cleaning
7	7. Stain removal
8	8. Study of various care labels.

Text Books:

1. *Susheela Dantyagi, Fundamentals of Textiles and their Care- (1980) Orient Longmann Ltd.*

Reference books:

1. *Wngate IB, Textiles fabrics and their Selection – Allied publishers Ltd, Chennai.*
2. *Tate of Glession, Family Clothing – John Wiley & Sons Inc, Illinois.*
3. *Durga Duetkar, Household Textiles and Laundry Work – Amla Ram& Sons, Delhi.*

Code No	Subject	Semester No
16CDP16	INDUSTRIAL TRAINING	III
Objective	To give an exposure of the current trends and systems in merchandising	

Topics

Students will go for two weeks training to a buying house / office dealing with fashion garments and textiles. A report should be submitted individually after the two weeks training on the various departments of a buying house / office.

Code No	Subject	Semester No
16CDP17	GLOBAL FASHION MERCHANDISING	IV
Objective	To study the current concepts related to fashion and marketing strategies.	

Unit No	Topics	Hours
I	<p>Introduction What is merchandising? Role of a merchandiser, Export merchandising – consignment, Documentation, INCO terms. Retail Merchandising – Forecasting, Product Mix Strategies, Category Management, Retail Buying (OTB), Inventory Management, Quality control.</p> <p>Marketing Marketing – what is marketing? The approach towards marketing, marketing concepts, types of markets, understanding needs, wants and demands, market research and survey. Report Marketing mix, product development, Location Planning, Supply Chain management, Advertising, Pricing, Customer Segmentation, targeting & positioning, Strategic Marketing, Retail aspects of retailing. Retail operations & audits, store layout & visual merchandising, Customer relationship management.</p>	15
II	<p>Understanding & Handling of Clients Personal selling in retail, training programmes, salesmanship in garments, etc., sales management – listening, identifying, solution, overcoming objections, closing a sale, negotiation.</p>	15
III	<p>Quality Control What is quality control? What is ISO 9000, its scope and advantage, Quality assurance, ISO 9000 definition & standards, Inspection – stages of inspection, AQL care labeling. Packaging of garment. Transport and insurance. Documentation – terminology, Export promotion measures, Institutional support , AEPC</p>	15

IV	<p>Human Resource Development</p> <p>Understanding human resources, human resources development, industrial psychology / motivation, leadership qualities & techniques ergonomics, working conditions, job description, recruitment of designers, cutters, etc., training / Re - training, wages structure and incentives, job evaluation, merit rating, industrial relations, commercial & industrial law.</p>	15
V	<p>Finance Management of your Business</p> <p>Funding / Sources, Financial institutions, banking, public / euro issues, Book Keeping and accountancy, Cost accounting, Budgetary Planning and control, working capital assessment, cash flow final account, audit latest management techniques.</p>	12

Cont d..

GLOBAL FASHION MERCHANDISING

Text Books:

1) *Mike Basey, Fashion marketing, (1995) Oxford University press, Wynford Drve, Don Mills, Ontario).* **Reference Books:**

1) Harold Carr and John Pomeroy, *Fashion Design and Product Development*, (1992) Blackwell Science Inc, Cambridge.

2) Patrick John, *Introduction to Fashion*, (1992) B T Batsford Ltd, Ireland, Fullham road, London. 3) Stephens Frings, *Fashion From Concepts to Consumer*, Prentice Hall, 7th Edition 2002.

Exercise No	Topics
1	<p>Understanding the human body Importance of certain parts of the body in recording fashion, concept of body language, fashion – Glamour, feelings and emotions.</p>
2	<p>Introduction to studio lights & effects Theory and practical. Measuring light using a flash meter effects theory and practical. Measuring light using a flash meter.</p>
3	<p>Make- up Corrective and glamorous. Its importance and application with specific objectives. Theory and practical.</p>
4	<p>Different Lightings in the studio and effects of lighting with specific purpose. Lighting for different types of photography. Theory and practical on a dummy / model. Importance of background in a studio.</p>
5	<p>Details Recording fashion, effective ways of taking pictures of textures and textile materials. Presenting the best in pictures of ornaments / table tops of different types. Still life photography.</p>

6	Studio photography Critical study of the photographs taken during studio photography analysis, advantages, disadvantages, objective achievements, success points, failure points.
Code No 16CDP18	Strategies Hints to the fashion photographer by successful photographers. Subject PRACTICAL - IX - FASHION PHOTOGRAPHY Discussion on techniques.
Objective	Display of the work To understand the concepts involved in fashion photography. Display of the work of the renowned fashion photographers. Discussion on techniques, success and failures.
9	Opportunities Scope and prospects : markets, trends and opportunities available to a fashion photographer.

Reference books:

- 1) Tom Grimm *The Basic Book of Photography: Fifth Edition.*
- 2) Luis E Gonzalez, *Fashion photography selling to magazines, 2012.*

Exercise No	Topics
1	Threading
2	Creambleaching
3	Manicure
4	Pedicure
5	Facial – Normal skin
6	Basic Hair styles
7	Basic hair cuts
8	Mehandhi application

9	Bridal make up
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Code No	Subject	Semester No
16CDP19	Elective II (a) – PRACTICAL- X- BEAUTY CARE	III
Objective	To gain knowledge on grooming.	

Reference Books:

1) *Dulhan Arabic Mehndhi*, Published by Kanta Kala Niketan

2) *Ambika Manchanda*, Naturally beautiful your skin, Rupa Publications India Pvt Ltd, 2002-03.

3) *Renu Gupta, Complete Beautician Course, 2011*

Unit No	Topics
I	<p>Introduction to Visual Merchandising Role & importance of Visual merchandising in today's competitive world. Visual merchandising as a marketing strategy. The art of pre - selling a product.</p> <p>Outlining and developing a display strategy Role & Importance of Visual merchandising in todays competitive world. Visual merchandising as a marketing strategy and window.</p>
II	<p>Strategic Planning Analysis of target audience, segmentation of market, analysis of buying motives, brand preferences. Understanding marketing and sales management.</p>

III	Basic Principles Window designs, showroom boutique display, colour theory, harmony & application. Music and its power. Use and application of mannequins. Construction.				
Code No Code No 16CDP19	Various types of props. Plants palms, petunia plants, ferns etc., sylvan props twigs, vines, frames, fence etc., paper and paper product tissue paper, typing paper, sculpted paper, boxes etc.,	Subject Subject Elective II (b) PRACTICAL IX VISUAL MERCHANDISING	Semester Semester IV No		
Object ive	Furniture & fabrics. Model making materials. To develop ideas of PROJECT WORK of fashion merchandise.	IV			
IV	To train students to gain experience in Costume Designing and Weaves, stripes, checks, plaids, geometric, dots, floral figures, fantasies & other patterns, importance of backdrop presentation.				
V	<p>Music & Lighting Selection of music. Advantages and disadvantages of using music, understanding lighting patterns. Role of lighting in visual merchandising, colours and types of lightings</p> <p>Sophistication In Visual Display Latest equipments & systems. Use and selection of various mediums. Audio visual presentation. Usage of scientific technology in visual display</p>				

Text Books:

1. *Fashion Merchandising & Information, PRISCO*

Reference books:

1. *Fashion Merchandising, Elaini Store.*
2. *Fashion Merchandising Introduction – Stores & Shoppers.*
3. *Kitty Dickerson, The business of fashion inside outside.*

Topics

A students will do their project of their choice on Costume Designing or Textiles