

DEPARTMENT OF COSTUME DESIGN AND FASHION

RATHINAM COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)

RathinamTechzone, Pollachi Road, Eachanari, Coimbatore – 641021



Syllabus for

**B.Sc. COSTUME DESIGN AND FASHION
(I to VI Semeser)**

2019-2020 Batch on-wards

Vision and Mission of the Institution:

VISION

A world renowned INDUSTRY-INTEGRATED INSTITUTION that imparts knowledge, skill, and research culture in young men and women to suit emerging young India.

MISSION

To provide quality education at affordable cost, and to maintain academic and research excellence with a keen focus on INDUSTRY-INTEGRATED RESEARCH AND EDUCATION.

MOTTO

Meaningful INDUSTRY-READY education and research by all means

Vision and Mission of the Department:

VISION

Develop a World Class Designer.

MISSION

- Our mission is to prepare diverse students of art and design to enrich our world through their creativity, their skill and their vision.
- To provide quality education with a blend of academic and industry exposure
- To help students to get employed and to provide promotional opportunities for employed youth with additional qualification

Program Educational Objectives (PEO)

PEO1	:	Adapt their artistic abilities to support their future design careers.
PEO2	:	Assess, propose and apply various techniques related to drafting, draping and constructing of garments
PEO3	:	Develop a systematic, critical approach to problem solving at all levels of the design process.

PEO4	:	Relate the design process to the appropriate manufacturing process.
PEO5	:	Demonstrate professionalism by managing time to meet deadlines with quality work and effectively collaborating in teams.

Mapping of Institute Mission to PEO

Institute Mission	PEO's
To provide quality education at affordable cost	PEO5
To maintain academic and research excellence with a keen focus on industry-integrated research and education.	PEO1, PEO3

Mapping of Department Mission to PEO

Department Mission	PEO's
Prepare diverse students of art and design to enrich our world through their creativity, their skill and their vision.	PEO1,
To provide quality education with a blend of academic and industry exposure	PEO5,PEO4
To help students to get employed and to provide promotional opportunities for employed youth with additional qualification	PEO2, PEO3

Program Outcomes (PO):

PO1	:	To Demonstrate the professional skills and behavior necessary to compete in the global marketplace for textile surface design (fiber to fabric)
PO2	:	Enable them to discover their own strengths whilst building a sound foundation of fashion knowledge and skills.

PO3	:	To specialize in one of the four pathway areas, progressing towards final year pathways in Fashion Design, Fashion Communication, Garment Technology and Design for Performance.
PO4	:	To demonstrate the acquaintance in the history of fashion, patterns, and the basic theories of fashion design
PO5	:	To reveal expertise in probing trends, portrayal designs based on their ideas, choosing colors and framework and supervising the production of their designs.
PO6	:	To reveal leadership, participation, and problem solving skills in a problem solving, collaborative, environment.
PO7	:	To Research, analyze and creatively illustrate the historical relevance of fashion innovation, evolution and trends.
PO8	:	To pertain both drafting and draping techniques in garment design. To complete garment details with appropriate construction techniques.
PO9	:	To develop and accomplish illustrated designs in multiple techniques.
PO10	:	To Demonstrate an understanding of fabrication/materials selection to enhance design and reflect an understanding of the total design concept. (Accessories)
PO11	:	To demonstrate knowledge in the history of fashion, patterns, and the basic theories of fashion design (color, line, shape, texture, scale, and proportion), pattern making, illustration, and construction of garments.
PO12	:	To be competent in the use of software packages that are used in the industry, as well as have the ability to translate their artistic skills into any new software they encounter. To indenture basic patterns using computer-aided design.(CAD)

Correlation between the POs and the PEOs

Program Outcomes		PEO1	PEO2	PEO3	PEO4	PEO5
PO1	:		✓		✓	✓
PO2	:	✓			✓	
PO3	:		✓		✓	

PO4	:			✓		✓
PO5	:	✓		✓	✓	
PO6	:			✓		✓
PO7	:	✓	✓			
PO8	:		✓		✓	
PO9	:	✓				
PO10	:			✓	✓	✓
PO11	:	✓	✓		✓	
PO12	:	✓	✓			✓

Components considered for Course Delivery is listed below:

1. Class room Lecture
2. Laboratory class and demo
3. Assignments
4. Mini Project
5. Project
6. Online Course
7. External Participation
8. Seminar
9. Internship

Mapping of POs with Course Delivery:

Program Outcomes	Course Delivery								
	1	2	3	4	5	6	7	8	9
PO1		✓			✓				✓
PO2	✓		✓			✓			
PO3	✓		✓	✓					✓
PO4	✓	✓	✓					✓	
PO5	✓			✓	✓		✓		✓

PO6				✓	✓				
PO7			✓	✓	✓				✓
PO8		✓				✓		✓	
PO9		✓		✓			✓		
PO10	✓	✓		✓	✓				
PO11	✓	✓			✓				✓
PO12		✓	✓				✓		

Semester :I

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD1CA	Core-Fibre	4	4		Theory	

To Fabric

Introduction:

This course facilitates an understanding of fibre to fabric and orients the learners in the field of textile. The learners are expected to know the Properties and uses of natural fibres, spinning and yarns in textile industry.

Course Outcome :

CO1	:	Acquire knowledge on the field of textiles.
CO2	:	Understand the manufacturing process of fibres.
CO3	:	Acquire knowledge on spinning and yarn classification.
CO4	:	Develop structures for complex weaving.
CO5	:	Describe the charecteristics, properties and applications of woven fabric structures.

UNIT- I

Introduction to the field of textiles – classification of fibres – natural and chemical – Primary and secondary characteristics of textile fibers.

UNIT- II

Manufacturing Process, Properties and uses of natural fibres –cotton, linen, Jute, pineapple, hemp, silk, wool, hair fibres, man-made fibres- Viscose rayon, acetate rayon, nylon, polyester, acrylic.

UNIT – III

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.

UNIT – IV

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.

UNIT – V

Non – wovens – felting, fusing, bonding, lamination, netting, braiding and calico, tatting and crocheting.

Text Book :

1. Textiles –fibre to fabric, Corbmann B.P, International student’s edition, McGraw Hill 2. Book company, Singapore 1985.

Reference :

1. Textiles –fibre to fabric, Corbmann B.P, International student’s edition, McGraw Hill 2. Book company, Singapore 1985.
3. Fabric Science 5 thedition , Joseph J Pretal , Fairchild Publications ,Newyork 1990.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	L		H	H	H	H	L	L	L	H	H
CO2	H	H	H	L	L	H		H	H	H	H	H
CO3	H	L	H	L	L		L	L	H	L	H	H
CO4	H	L	H	L	L	H	H		L	H	L	H
CO5	L	H	H	H	H	L	H	H	H	H	H	

Semester :I

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD1CP	Core -Fibre To Fabric Practical	22	Practical			

Introduction:

This course facilitates an understanding of fibre to fabric and orients the learners in the field of textile. The learners are expected to know the Properties and uses of natural fibres, spinning and yarns in textile industry.

Course Outcome :

CO1	:	Identify woven fabric design and its commercial name by fabric feel.
CO2	:	Analyse and calculate the woven fabric parameters.
CO3	:	Analyse and calculate the knitted fabric parameters.
CO4	:	To impart the knowledge of fibres ,sources,their identification and properties.
CO5	:	To provide students with the knowledge of yarns science and thierproperties .

Identification of textile fibres

Fibres – Cotton, Silk, Wool, Nylon, Polyester, Linen, Rayon, Jute.

1. Microscopic Method

2. Flame test.

3. Chemical test.

Testing of yarns/ fabrics

1. Counting of the yarn using wrap reel.

2. Counting of the yarn using beesley's balance.

3. Twist of the yarn using twist tester.

4. Determining the weight of the fabric.

5. Determining the fabric count by

a. Raveling method

b. Pick Glass method

6. Colour fastness to water.

7. Test of Shrinkage.

8. Test of Absorbency.

Text Book :

1. Textiles –fibre to fabric, Corbmann B.P, International student's edition, McGraw Hill 2. Book company, Singapore 1985.

References:

1. Textiles – fibre to fabric, Corbmann B.P, International student's edition,

McGraw Hill 2. Book company, Singapore 1985.

2. Fabric Science 5 th edition, Joseph J Pretal, Fairchild Publications, Newyork 1990.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	L	H	H	H	L	H	H	L	H	H	
CO2	H		H	H	L	H	H	H	L	H	L	H
CO3	L	H	H	L	L	H	H	H	L	H	L	L
CO4	H	L	H	L	L	L	L		H	L	H	H
CO5	H	L	H	H	L	H	L	L	H		L	L

Semester :II

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD2CA	Core- Fashion Designing	4	4Theory			

Introduction:

Help to learn about terms related to fashion industry and acquire knowledge about the colour theory and understanding about designs and its elements.

Course Outcome :

CO1	:	Helps to learn about fashion industry.
CO2	:	To acquire the basic skills and knowledge of designs and its elements.
CO3	:	Identify to know about the colour theories.
CO4	:	Acquire the knowledge about dress designing.
CO5	:	Understanding about factors of fashion.

UNIT I

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 avantgarde, bridge, buyinghouse, apparel, fashion merchandising, pre – a – porter, sample.

UNIT II

Design- definition and types – structural and decorative design, requirements of a good structuraland 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 trimmingsand decorations.Fashion accessories- shoes, handbags, hats, ties – different types/ shapes.Principles of design- balance – formal and informal, rhythm-through repetition, radiation andgradation, emphasis, harmony and proportion. Application of principles of design in a dress.

UNIT III

Colour- definition, colour theories- prang colour chart and munsell colour system, Dimensions ofcolour- hue, value, and intensity. Standard colour harmonies- application in dress design. Colourin principles of design- application of the same in dress design.

UNIT IV

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.

UNIT V

Wardrobe planning for different age groups, factors influencing wardrobe selection, Fashion and season, Designing dresses for different occasions – business meetings, parties/ dinners, evenings/leisure hours, marriage functions, sports, uniforms for civil service, airhostess, hoteliers, schools – girls and boys (school, high school).

Text Book :

1. Watson's textile design and colour. Grosichkli Z Newness, Butter worths, London 1980.
2. Watson's advanced textile design, Grosichkli Z Newness, Butter worths, London 1989

Reference:

1. Fashion Sketch Book – Bina Abbing, Fair Child Publications, New York
2. Strategies for Women – Judith Rasband, Delmar publishers London
3. Fundamentals of Inside the Fashion Business- Heannette A Jarnow et-al, macmilan Publishing Company, New York.
4. Art and Fashion in Clothing Selection – McJimsey and Harriet, Iowa State University Press, Iowa.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	L		H	H	H	H	L	L	L	H	H
CO2	H	H	H	L	L	H		H	H	H	H	H
CO3	H	L	H	L	L	H	L	H	H	L	H	H
CO4	H	L	H	H	L		H	L	L	H	L	H
CO5	L	H	H	L	H	L	H	H	L	H	H	

Semester :II

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD2CP	Core- Fashion22 Practical					
Designing Practical						

Introduction:

This course facilitates and know about the practical knowledge about the colour theory and its elements and principles of design.

Course Outcome :

CO1	:	Describe the classification of colours.
CO2	:	To acquire the basic skills and knowledge of colour theory.
CO3	:	Illustrate the garment designing and principles of designs.
CO4	:	Acquire knowledge about the colour harmony in dress designing.
CO5	:	Construct the different types of dress designing for different figures.

1. Prepare the following Charts

- Prang colour chart
- Value Chart
- Intensity Chart

2. Illustrate garment designs for the Elements of Design

- Line
- Colour
- Texture
- Shape or form
- Size

3. Illustrate garment designs for the Principles of Design

- Balance in dress
- Harmony in dress
- Emphasis in dress
- Proportion in dress
- Rhythm in dress

4. Illustrate the colour harmony in dress design

- a. Monochromatic colour harmony
- b. Analogous colour harmony
- c. Complimentary colour harmony
- d. Double complementary colour harmony
- e. Split complementary colour harmony
- f. Triad colour harmony

5. Application of colour and principles of design in dress

- a. Harmony through colour
- b. Emphasis through colour
- c. Proportion through colour
- d. Rhythm through colour
- e. Balance through colour

6. Designing dresses for figure irregularities- becoming and unbecoming 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.

Text Book :

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

Reference:

1. Fashion Sketch Book – BinaAbling, Fair Child Publications, New York Wardrobe
2. Strategies for Women – Judith Rasband, Delmar publishers London Fundamentals of
3. Textiles and their Care- SusheelaDantyagi, 5 th edition,. Orient Longman Ltd NewDelhi
4. Inside the Fashion Business- Heannette A Jarnow et-al, macimilan Publishing Company, NewYork.
5. Art and Fashion in Clothing Selection – McJimsey and Harriet, Iowa State University Press, Iowa.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	L		H	H	H	H	L	L	L	H	H
CO2	H	H	H	L	L	H		H	H	H	H	H
CO3	H	L	H	L	L	H	L	H	H	L	H	H
CO4	H	L	H	H	L		H	L	L	H	L	H
CO5	L	H	H	L	H	L	H	H	L	H	H	

Semester :III

Subject Code Subject Title Credit Lecture Tutorial Practical Type

19BCD3CA Core- Textile Wet 4 5 Theory
Processing

Introduction:

This course facilitates an understanding textile and quality control and Identification of Textile Fibre and orients the learners in the field of textile industry. The learners are expected to know the fibre analysis, yarn analysis and fabric analysis in textile industry.

Course Outcome :

CO1	:	To obtain knowledge chemical processing of cotton and blended materials.
CO2	:	Identifying the suitable process to process the fibre ,yarn and fabrics through preparatory and dyeing processes.
CO3	:	To evaluate the parameters and identifying the recipes for chemical processing of different materials .
CO4	:	To attain knowledge and analysis the parameters for printing techniques.
CO5	:	To get hold knowledge on the eco-friendly processes and the effluent treatments.

UNIT – I

Introduction to textile processing-process sequence-impurities present in grey fabric. Desizing-objects & types-acid, Enzyme desizing. Scouring-objects & types-open scouring, kier boiling.

UNIT – II

Bleaching- objects & types, chemicals used-hypochlorite, hydrogen peroxide bleaching. Scouring and bleaching of wool, silk, nylon & polyester. Mercerization- objects & types-chain, chainless mercerizing.

UNIT – III

Dyeing-objects, parameters of dyeing, classification of dyestuff according to their chemical structure and specific application. Dyeing of cotton with direct, reactive, vat, sulphur and azoic dyes, polyester with disperse dyes, silk with acid and basic dyes and natural dyes.

UNIT – IV

Concept of Dyeing machines – fiber, yarn and fabric dyeing machines – working principles of cheese hank package – winch – HT Beam, jet – padding mangles-soft flow. Wet processing of Knitted fabric – scouring – Bleaching- dyeing – printing- calendaring-Shrink controlling - steaming. Wet processing of fiber blends.

UNIT – V

Colour fastness to washing-light,rubbing and perspiration.computercolour matching-Briefly study of Eco-friendly chemical processing.Effluent treatment-methods-colour removal-bio degradation.ETPplant.

Text Book:

1. Booth J.E. Principles of Textile Testing, CBS Publishers,1996.
2. Elliot. B.Grover and Hamby. D.S. Textile Testing and Quality Control, EasternLtd.,

Reference:

1. Booth J.E. Principles of Textile Testing, CBS Publishers,1996.
2. Elliot. B.Grover and Hamby. D.S. Textile Testing and Quality Control, Eastern Ltd.,
3. Satish K. Bhardwaj and Pradip, V. Metha, Managing Quality in Apparel Industry, New age International Publishers, 2000.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H		L		H	L	H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L	H	H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L	H	H	L	H

Semester :III

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD3CP	Core- Textile Wet	2		4	Practical	

Processing Practical

Introduction:

This course facilitates an understanding textile and quality control and Identification of Textile Fibre and orients the learners in the field of textile industry. The learners are expected to know the fibre analysis, yarn analysis and fabric analysis in textile industry.

Course Outcome :

CO1	:	To obtain knowledge chemical processing of cotton and blended materials.
CO2	:	Identifying the suitable process to process the fibre ,yarn and fabrics through preparatory and dyeing processes.
CO3	:	To evaluate the parameters and identifying the recipes for chemical processing of different materials .
CO4	:	To attain knowledge and analysis the parameters for printing techniques.
CO5	:	To get hold knowledge on the eco-friendly processes and the effluent treatments.

Preparation of samples for Processing

- Desizing
- Scouring
- Bleaching
- Mercerising

Dye the given fabric using suitable dye

- Direct Dye
- Sulphur Dyes
- Vat Dyes
- Disperse Dyes
- Reactive Dyes
- Acid Dyes
- Basic Dyes
- Natural Dyes
- Block, Wooden & Vegetable Dyes
- Tie & Dye and Batik
- Stencil & Screen , Flock Printing

Text Book:

1. Booth J.E. Principles of Textile Testing, CBS Publishers, 1996.
2. Elliot. B. Grover and Hamby. D.S. Textile Testing and Quality Control, Eastern Ltd.,

Reference:

1. Booth J.E. Principles of Textile Testing, CBS Publishers,1996.
2. Elliot. B.Grover and Hamby. D.S. Textile Testing and Quality Control, Eastern Ltd.,
3. Satish K. Bhardwaj and Pradip, V. Metha, Managing Quality in Apparel Industry, New age International Publishers, 2000.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H		H		H	L	H		L	L
CO3	H	H	H	H	H	L	L	L		H		L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L	H	H	L	H

Semester :IV

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD4CA	DSC – Draping	4	5	Theory		

Introduction:

To gain skills in different types of draping and know the techniques in draping techniques of different components of garments.

Course Outcome :

CO1	:	Helps to learn about principles of draping.
CO2	:	To acquire the basic skills and knowledge of draping styles.
CO3	:	Identify to know about the draping of sleeves on dress form.
CO4	:	Acquire the knowledge about draping of collars on dress form.
CO5	:	Understanding about draping styles of skirts.

UNIT –I

Draping – definition, advantages and disadvantages. Principles of draping, procedure in draping, importance of draping and materials used.

UNIT – II

Bodices of one piece type. Bodices of two piece type.

UNIT – III

Sleeves- plain set-in-sleeve, flared sleeve, fullness at top, sleeve with extended darts at top with fullness, raglan sleeve, dolman sleeve and variations sleeve for cap shoulder bodice and drop shoulder bodice, flared lower sleeve and cuff.

UNIT – IV

Collars – round collar with straight back, bias round collar, flat collar with straight back, shawl and cape collar with straight back, flat collars with straight front, irregular collars.

UNIT – V

Skirts – Important principles, two piece skirt, two piece flared skirt, one piece, wrap around skirt, bias circular skirt.

Text Book:

Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai (1986)

Reference:

1. Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai (1986)
2. Pattern Grading for women's clothing, The technology of sizing –Gerry cooklin , Blackwell Science Ltd (1990).

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H	H	L	H	H		H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester :IV

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD4CP	DSC – Draping Practical	2			4	Practical

Introduction:

To Provide Basic Fundamental Of Pattern Draping About Different Styles In Draping Using Draping Manniquins.

Course Outcome :

CO1	:	To identify and explain functions of different tools and suplies.
CO2	:	To demonstrate use of different tools and supplies.
CO3	:	To use the draping manniquiuns using correct procedures.
CO4	:	To design the draping using correct procedures.
CO5	:	To identify types of drapings.

I.Prepare the following samples using the Draping Method

- Basic bodice - Front and Back
- Dart Manipulation
- Pleats, Darts, Tucks and Gathers

II.Neckline variations

- Boat neck
- Drawstring
- Cowl
- Key hole
- Halter

III. Armhole variations

- Square
- Round
- V Shape

IV. Waistline variations

V.Skirts

- Flared skirt
- Gore skirt
- Pleated skirt
- Hip yoke skirt
- Umbrella skirt

VI. Collars

- Shirt Collar
- Stand Collar
- Peter Pan collar
- Shawl collar cut in one piece with front waist
- Tie tying techniques – 5 methods

VII. Sleeves

- Basic sleeve
- Puff sleeve
- Bell Sleeve
- Leg – o – Mutton
- Petal sleeve
- Raglan sleeve
- Kimono sleeve

VIII. Design the following garment by draping Techniques

- Create any one of garment for a girl child – street wear
- Create any one of garment for a boy child – casual wear
- Create any one of garment for a teenage girl – party wear
- Create any one of garment for a teenage boy – formal wear

Text Book:

Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai (1986)

Reference:

1. Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai (1986)
2. Pattern Grading for women's clothing, The technology of sizing –Gerry cooklin ,Blackwell Science Ltd (1990).

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H

CO2	L	L	H	H	L	H	H		H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester : V

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD5CA	Core- Fabric Structure And Design	4	5Theory			

Introduction:

This course facilitates an understanding of fabric forming techniques and orients the learners in the field of fabric design .The learners are expected to know the classification of looms, construction of elementary weaves in textile industry.

Course Outcome :

CO1	:	Acquire Knowledge On The Elements Of Woven Fabric Design.
CO2	:	Develop elementary fabric weave structures .
CO3	:	Acquire knowledge on colour theory ,modification of colour and weaves effects.
CO4	:	Develop structures for complex woven fabrics .
CO5	:	Describe the characteristics ,properties and applications of woven fabric structures.

UNIT-II

Elements of woven design, Methods of fabric representation, draft and lifting plan, construction of elementary weaves – plain, wrap rib, weft rib, twill, modification of twills, satin and sateen weaves – their derivatives.

UNIT-II

Ordinary and brighten honey comb, its modification, huck a back and its modifications, crepe weaves, mock leno.

UNIT-III

Extra warp and extra weft figuring – single and two colours, planting, backed fabric, warp and weft backed fabrics.

UNIT-IV

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.

UNIT-V

Double cloth –classification, self stitched – face to back, back to face, both. Centre stitched – warp and weft. Interchanging double cloth.

Text Book :

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

Reference:

1. Watson's Textile Design and Colour.,Grosichkli . Z. Newness
2. Textiles – fibre to fabric, Corbmann .B.P.,
3. Fabric structure and Design, N.Gokarneshan.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	L		H	H	H	H	L	L	L	H	H
CO2	H	H	H	L	L	H		H	H	H	H	H
CO3	H	L	H	L	L	H	L	H	H	L	H	H
CO4	H	L	H	H	L		H	L	L	H	L	H
CO5	L	H	H	L	H	L	H	H	L	H	H	

Semester : V

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD5CP	Core- Fabric Structure And Design practical	24	Practical			

Introduction:

This course facilitates an understanding of fabric forming techniques and orients the learners in the field of fabric design. The learners are expected to know the classification of looms, construction of elementary weaves in textile industry.

Course Outcome :

CO1	:	Acquire Knowledge On The Elements Of Woven Fabric Design.
CO2	:	Develop elementary fabric weave structures .
CO3	:	Acquire knowledge on colour theory ,modification of colour and weaves effects.
CO4	:	Develop structures for complex woven fabrics .
CO5	:	Describe the characteristics ,properties and applications of woven fabric structures.

Identification of the following weaves , Design and Draft a peg plan for the same.

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.

Text Book :

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

Reference:

1. Watson's Textile Design and Colour., Grosickli . Z. Newness
2. Textiles – fibre to fabric, Corbmann .B.P.,
3. Fabric structure and Design, N.Gokarneshan.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012

CO1	L	L		H	H	H	H	L	L	L	H	H
CO2	H	H	H	L	L	H		H	H	H	H	H
CO3	H	L	H	L	L	H	L	H	H	L	H	H
CO4	H	L	H	H	L		H	L	L	H	L	H
CO5	L	H	H	L	H	L	H	H	L	H	H	

Semester : VI

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD6CA	Core- Knitting	4	5			Theory

Introduction:

This course facilitates an understanding of fabric forming techniques and orients the learners in the field of knitting. The learners are expected to know the classification of knitting, elements and functions of knitting machines in textile industry.

Course Outcome :

CO1	:	Recognize The Weft Knitted Fabric Production Process.
CO2	:	To summarize the structure and properties of various weft knitted fabrics.
CO3	:	Acquire knowledge on the structure & properties of various advanced weft knitted fabrics.
CO4	:	Recognize the structure, properties, application and latest developments in warp.
CO5	:	Acquire knowledge on the application of knitted structures for technical textiles.

UNIT-I

Knitting – Definition, classification and history, types of knitting- hand and machine, characteristics of knitted goods.

UNIT-II

General terms and principles of knitting technology, machine knitting, parts of machine, knitted loop structure, stitch density.

UNIT-III

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.

UNIT-IV

Warp knitting-lapping variations-tricot, raschel, simplex and Milanese -kitten raschel single bar,2 bar, multi bar machines. types of threading, production of nets, curtains, heavy fabrics, elasticized fabrics.

UNIT-V

Care and maintenance of knitted material-washing, drying, ironing, storing.

Text Book:

1. Knitting Technology – D.B.Ajgoankar
2. Knitting Technology – David . J. Spencer
3. Textile Mathematics – J.E. Booth

Reference :

1. Knitting Technology – D.B.Ajgoankar
2. Knitting Technology – David . J. Spencer
3. Textile Mathematics – J.E. Booth

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	H	H	H		L	L	L		H	H	H
CO3	L	H	H	H	L	L	L		L	H	H	H
CO4	L	L	H		L		H	L	H	H	L	L
CO5	H	H	H	H	H	L	L	L		H		L

Semester : VI

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCD6CP	Core- Knitting	2		4		Practical

Introduction:

This course facilitates an understanding of fabric forming techniques and orients the learners in the field of knitting. The learners are expected to know the classification of knitting, elements and functions of knitting machines in textile industry.

Course Outcome :

CO1	:	Recognize The Weft Knitted Fabric Production Process.
CO2	:	To summarize the structure and properties of various weft knitted fabrics.
CO3	:	Acquire knowledge on the structure & properties of various advanced weft knitted fabrics.
CO4	:	Recognize the structure, properties, application and latest developments in warp.
CO5	:	Acquire knowledge on the application of knitted structures for technical textiles.

Identify the given fabric

Methodology used – unravel and graphic representation

- *Plain Knit*
- *Rib Knit – 1x1, 2x2*
- *Interlock*
- *Pique – any 2 structures*
- *Tricot*
- *Raschel*

Defect Analysis

- *Vertical and horizontal lines*
- *Holes and cuttings*
- *Distorted stitches*
- *Any other*

Text Book:

1. Knitting Technology – D.B. Ajgoankar
2. Knitting Technology – David . J. Spencer
3. Textile Mathematics – J.E. Booth

Reference :

1. Knitting Technology – D.B. Ajgoankar

2. Knitting Technology – David . J. Spencer

3. Textile Mathematics – J.E. Booth

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	H	H	H	H	L	L	L		H	H	H
CO3	L	H	H	H	L	L	L	H	L	H	H	H
CO4	L	L	H	L	L		H	L	H	H	L	L
CO5	H	H	H	H	H	L	L	L		H		L

Semester : VI

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
DSC	Core Project Portfolio Presentation	8			6	Practical

Introduction:

A creative, innovative, and well developed Apparel Portfolio Report is the essential tool a fashion designer uses to share his or her original ideas.

Course Outcome :

CO1	:	Develop creative designing sensibilities among students.
CO2	:	Developing ensembles through thematic presentations and interpretations.
CO3	:	Make students understand how to make portfolio in tune with industry requirement which is the compilation of the work.
CO4	:	Produce a strong visual document that explains the skills, techniques and vocational quality that qualifies a student to work in apparel industry.
CO5	:	Introduce the students as fashion designers.

Portfolio development and Presentation technique

1. An individual Portfolio presentation based on a theme
2. The portfolio will contain collections made for Men's, Women's and Kid's for categories like casual wear, party wear, ethnic wear etc.
3. Preparation of Mood board, Story board.
4. Design development chart - Preparation of various styles for selected fabrics
5. Selection of Accessories
6. Final Presentation
7. Number of garments in a collection - 5 garments

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H		H	H	H	H	L	L	L	L	H	H
CO2	L	L	L		H	H	H	H	H	L	L	L

CO3	H	H	L	L		L	L	L	H	H	H	H
CO4	L	L	H	H		H	H	L	H	L	H	L
CO5	H	H	L	L	L		L	H	H	L	H	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDCO1	DSC- Costumes of The World	4	4	Theory		

Introduction:

To study the costumes of the world.To trace the development of western costume through the ages.To become familiar with the styles and special features in costume from ancient world till 20th century.

Course Outcome :

CO1	:	Students will know the costumes of the world.
CO2	:	Acquire knowledge about the styles of costumes and special features.
CO3	:	Students will be familiar with the styles worn during the ancient till 19 th century.
CO4	:	They come to know about the western costumes through the ages.
CO5	:	Student will gain knowledge in the various costumes worn.

UNIT - I

American Countries -Inuit and Aleut, American Indians of the southwest, Plains and northwest, Amish costumes, Guatemala, Mexico, Colombia, Peru and Bolivia, Chile andBrazil.

UNIT - II

European countries –Russia, Finland, Italy, Norway, Sweden , Denmark, Scotland, Austria, Germany, Spain, Belgium, Ireland Switzerland, Hungary, Poland and Ukraine.

UNIT - III

Middle and Far Eastern Countries - Turkey and Iran, Costumes of Arab Peninsula ,Mongolia, China, Japan, Korea, Taiwan,SriLanka, Pakistan, Bhutan Nepal, Vietnam, Cambodia, Myanmar , Thailand and Philippines.

UNIT - IV

African Countries—Egypt, Libya, Nigeria,Angola,Gabon, Sudan, Ethiopia,Kenya,Uganda, Tanzania, Botswana, Congo, Namibia, Zambia, Zimbabwe,Nigeria and Cameroon.

UNIT - V

Costume of ancient -Egypt,Greece and Rome.African Tribal Costumes. English costumes - English Costume during 15th -17th centuries. French costumes:French Costumes during renaissance 16th -18th centuries. American costumes: American costumes from 18th to 20th centuries.

REFERENCES:

1. Costumes of Indian and Pakistan, Das S N, D B TaraporevaIa Sons & Co, Bombay (1958)
2. Historic Costume, Chas A, 'Bernard and Co, illinois (1961)
3. Costume through the Ages, Laver, JamesSimon and Schuster, New York (1968).
4. Costumes throughout the Ages, Eoan C C, J B Limancott
5. The History of Costume; Kemper, Rachel H

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	L		H	H	H	H	L	L	L	H	H
CO2	H	H	H	L	L	H		H	H	H	H	H
CO3	H	L	H	L	L	H	L	H	H	L	H	H
CO4	H	L	H	H	L		H	L	L	H	L	H
CO5	L	H	H	L	H	L	H	H	L	H	H	

Semester :

Subject Code

19BCDCP1

Subject Title

DSC- Costumes of
The World Practical

Credit

2

Lecture

Tutorial

Practical

2

Type

Practical

Introduction:

To develop and implement the fashion illustration techniques. To develop skills in drawing costumes of various countries.

Course Outcome :

CO1	:	Students will know to sketch the costumes of the world.
CO2	:	Acquire knowledge to implement the techniques in designing.
CO3	:	Develop skills in drawing costumes of various countries.
CO4	:	They come to know about the sketching of world costumes.
CO5	:	Student will gain knowledge in the various costumes worn.

Prepare the following Illustrations

1. Illustrate costumes of American countries –Men and Women each 3 garments
2. Illustrate costumes of European countries –Men and Women each 3 garments
3. Illustrate costumes of African countries –Men and Women each 3 garments
4. Illustrate costumes of Asian countries –Men and Women each 3 garments
5. Drawing from Photographs - any 2 garment designs.
6. Portfolio Presentation - with theme Board, Mood Board, Flat Sketches, Fabric swatches,

Accessory samples - for the following collection

- Fashion Show - with a theme - Men and Women each 3 garments
- Winter collection - Men and Women each 3 garments
- Summer Collection -Men and Women each 3 garments

REFERENCES:

1. Costumes of Indian and Pakistan, Das S N, D B TaraporevaIa Sons & Co, Bombay (1958)
2. Historic Costume, Chas A, 'Bernard and Co, illinois (1961)
3. Costume through the Ages, Laver, James Simon and Schuster, New York (1968).
4. Costumes throughout the Ages, Eoan C C, J B Limancott
5. The History of Costume; Kemper, Rachel H

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	L		H	H	H	H	L	L	L	H	H
CO2	H	H	H	L	L	H		H	H	H	H	H

CO3	H	L	H	L	L	H	L	H	H	L	H	H
CO4	H	L	H	H	L		H	L	L	H	L	H
CO5	L	H	H	L	H	L	H	H	L	H	H	

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDCO2	DSC- Fundamentals of Apparel Designing	4	4			Thoery

Introduction:

To understand the basic sewing techniques and different types and handling of sewing machines and components of apparel should make a useful foundation and construct garment components using suitable construction techniques.

Course Outcome :

CO1	:	To acquire the basic skills and knowledge of fundamental parts and functions of sewing machine. Identify tools for Cutting, Sewing & Finishing and use of these tools with safety
CO2	:	Solve the sewing machine problems with suitable remedies after finding the causes.
CO3	:	Describe the federal classification of hems, seam & seams finishes and types of fullness.
CO4	:	Construct the different types of garment plackets, fasteners and sleeves using suitable construction
CO5	:	Understand about the classification of collars , yokes and pockets which can be done with the help of fabrics.

UNIT – I

Introduction – History of sewing machine. Types of sewing machines – Domestic sewing machine, Industrial sewing machine, difference between Domestic & Industrial sewing machine. Parts and functions of single needle machine. Essential tools – cutting tools, measuring tools, marking tools, pressing tools, general tools, types of paper and uses.

UNIT – II

Sewing machineries -care and maintenance –types of maintenance, common problems and remedies. Types of thread, types of needles, needle used in different fabrics. Fabric selection – factors in selection of fabrics. Terms and symbols used in sewing.

UNIT – III

Hems – types, stitches used .Seams and seam finishes – types, working and used of seams and seam finishes. Fullness- definition. Darts, tucks, pleats, godets, flares, gathers, ruffles and flounces. Facings – bias facing, shaped facing and decorative facing. Binding – single bias binding, double bias binding.

UNIT – IV

Plackets – definition, characteristics of a good placket, types – inconspicuous placket and conspicuous plackets. Fasteners – types and uses. Sleeves – definition, types, set-in-sleeves – plain sleeve, puff sleeve, bishop sleeve, bell, circular. Modified armhole – squared armhole. cap sleeve and Magyar sleeve. Sleeve and bodice combined – raglan, kimono and dolman.

UNIT – V

Collars – definitions, types, peter pan collar, stand collar, shirt collar, shawl collar, notched collar, sailor collar. Yokes – types, simple yoke, yoke with fullness within the yoke, yoke supporting/ releasing fullness. Pockets – types, Patch pocket, patch pocket with flap, in-seam pocket, slash pocket, welt pocket.

Textbook:

Practical clothing constructions; Mary Mathew, Bhattoarams reprographic Chennai.

Reference :

- Introduction To Clothing Manufacture, Gerry Cooklin, Om Book Service, III Edition, New Delhi, Chennai , 2008
- The Technology Of Clothing Manufacture, Harold Carr , Om Book Service, III Edition, New Delhi, Chennai , 2008
- A Complete Books of Sewing a Practical Step - By-Step Guide to Sewing Techniques, Penelope Cream, DK Pub, II Edition, USA, 2001.

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H		H	H	H	H	H	H	L	L	H
CO2	H	L	L	L		H	H	H	H	H	H	H
CO3	L	H	H	H	H	L		L	L	L	H	H
CO4	H	H	H	H	H	H	H	H	H		L	L
CO5	H	L		H	H	H	H	H	L	H	H	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDCP2	DSC- Fundamentals of Apparel Designing	2	2	Practical		

Introduction:

To understand the basic sewing techniques and different types and handling of sewing machines and components of apparel should make a useful foundation and construct garment components using suitable construction techniques.

Course Outcome :

CO1	:	Help to learn about the parts and functions of a sewing machine.
CO2	:	Understand about the classification of seam and seam finishes and types of decorations which can be done with the help of fabrics.
CO3	:	Help to learn about the facing and binding.
CO4	:	Understand the types of plackets and uses of fasteners.
CO5	:	Help to know about the types of sleeves, collars, yoke and pockets.

1. **Sewing machine** – types, functions and parts of sewing machine. Sewing practice on paper, stitching on fabric (Straight, curves, zig-zag, corners and circular)

2. **Preparation of samples for seam and seam finishes.**

- Seam – straight seam, top stitched seam , flat fell seam, French seam, mantua maker seam, piped seam.
- Seam finishes – pinked finish, edge stitched finish, double stitch finish, overcast finish.

3. **Preparation of samples for fullness.**

- Darts – Straight dart, double pointed dart
- Tucks – Single tuck, group tuck, broad tuck, pin tucks, twisted tuck.
- Pleats - plain pleats, knife pleats, box pleats, inverted box pleats.
- Godets
- Flares
- Gathers
- Ruffles and flounce

4. **Preparation of samples for facing , binding and piping.**

5. **Preparation of samples for plackets and fasteners.**

- Plackets –two piece placket, miter placket, shirt placket,blouse placket, faced placket, zipper placket, fly placket.
- Fasteners – press studs, Velcro tapes, hook and eye ,hook and lock, buttons, show buttons, wood buttons, skirt hook.

6. **Preparation of samples for sleeves.**

- Plain sleeve, puff sleeve, cap sleeve, petal sleeve, 3/4th sleeve, full sleeve, full sleeve with cuff, raglan sleeve, circular flounce sleeve.

7. **Preparation of samples for collars.**

- Peter pan collar, stand collar, shirt collar.

8. Preparation of samples for yokes.

- Hip yoke, midriff yoke, shoulder yoke, straight yoke, yoke with fullness, yoke without fullness.

9. Preparation of samples for pockets.

- Patch pocket, patch pocket with flap, in-seam pocket, welt pocket.

Text Book :

1. Practical Clothing Constructions; Mary Mathew, Bhattoarams Reprographic, I Edition, Chennai, 2009.

Reference :

1. Introduction To Clothing Manufacture, Gerry Cooklin, Om Book Service, III Edition, New Delhi, Chennai, 2008
2. The Technology Of Clothing Manufacture, Harold Carr, Om Book Service, III Edition, New Delhi, Chennai, 2008
3. A Complete Books of Sewing a Practical Step - By-Step Guide to Sewing Techniques, Penelope Cream, DK Pub, II Edition, USA, 2001.

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	H	H		H	H	H	H	L	H	L	L
CO2	H	L	H	L	L		L	L	H	L	H	H
CO3	H	L	L	H	L	L	L	L		L	H	H
CO4	L	H	H	L	H	H	H	H	L	H		L

CO5	H	L	H	L	L	L	L		H	L	H	H
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Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDC03	DSC - Textile Testing	4	4			Theory

Introduction:

This course facilitates an understanding textile and quality control and Identification of Textile Fibre and orients the learners in the field of textile industry. The learners are expected to know the fibre analysis, yarn analysis and fabric analysis in textile industry.

Course Outcome :

CO1	:	To obtain knowledge chemical processing of cotton and blended materials.
CO2	:	Identifying the suitable process to process the fibre ,yarn and fabrics through preparatory and dyeing processes.

CO3	:	To evaluate the parameters and identifying the recipes for chemical processing of different materials .
CO4	:	To attain knowledge and analysis the parameters for printing techniques.
CO5	:	To get hold knowledge on the eco-friendly processes and the effluent treatments.

UNIT – I

Introduction to Textile and Quality Control – Definition, General aspects of Textile testing and quality control, Routine tests performed in Textile Industry. Benefits of testing, International standards for textile and apparel testing.

UNIT – II

FIBRE ANALYSIS:

Identification of Textile Fibre – Burning, Solvent , Longitudinal and cross sectional view of Cotton, Wool, Polyester, Nylon, Acrylic fibres. Cotton fibre length, Cotton fibre strength, Fibre fineness and Nep Potential –Trash.

UNIT – III

YARN ANALYSIS:

Yarn numbering, yarn strength, Twist testing, Additional test for fibres and yarn – Microscope, Weight method, Air flow method, Wet strength and elongation of filament yarn, Crimp.

UNIT – IV

FABRIC ANALYSIS:

Length, Width, Bow, Skew ness, Weight, Thickness, Breaking Strength, Abrasion Resistance, Crease Recovery, Stiffness of fabrics and drapability.

UNIT –V

Standards and specification in Textile Industry, Quality control aspects, colour fastness tests in Textiles-Crocking, perspiration, sunlight, laundering.

Text Book:

1. Booth J.E. Principles of Textile Testing, CBS Publishers, 1996.
2. Elliot. B. Grover and Hamby. D.S. Textile Testing and Quality Control, Eastern Ltd.,

Reference:

1. Booth J.E. Principles of Textile Testing, CBS Publishers, 1996.
2. Elliot. B. Grover and Hamby. D.S. Textile Testing and Quality Control, Eastern Ltd.,
3. Satish K. Bhardwaj and Pradip, V. Metha, Managing Quality in Apparel Industry, New age International Publishers, 2000.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1		H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H		L		H	L	H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDCP3DSC	- Textile Testing 2 Practical			2	Practical	

Introduction:

This course facilitates an understanding textile and quality control and Identification of Textile Fibre and orients the learners in the field of textile industry. The learners are expected to know the fibre analysis, yarn analysis and fabric analysis in textile industry.

Course Outcome :

CO1	:	To obtain knowledge chemical processing of cotton and blended materials.
CO2	:	Identifying the suitable process to process the fibre ,yarn and fabrics through preparatory and dyeing processes.

CO3	:	To evaluate the parameters and identifying the recipes for chemical processing of different materials .
CO4	:	To attain knowledge and analysis the parameters for printing techniques.
CO5	:	To get hold knowledge on the eco-friendly processes and the effluent treatments.

- Fibre Testing
- Longitudinal view test using Microscope
- Fibre Length using Baer Sorter
- Fineness test using Sheffield Micronaire
- Bundle Strength using Stelometer
- Yarn Testing
- Yarn Count using Wrap Reel and Electronic Balance
- Yarn Count Beesley Balance and Quadrant Balance
- Yarn Twist using Twist tester
- Yarn Strength using Lea Strength Tester
- Fabric Testing
- Fabric length and Width
- Fabric thickness
- Fabric Weight
- Bursting Strength
- Crease Recovery
- Stiffness
- Drape
- Fabric warp and weft Crimp
- Rubbing fastness
- Washing fastness
- Perspiration Fastness
- Light Fastness
- Clothing care

Text Book:

1. Booth J.E. Principles of Textile Testing, CBS Publishers, 1996.
2. Elliot. B. Grover and Hamby. D.S. Textile Testing and Quality Control, Eastern Ltd.,

Reference:

1. Booth J.E. Principles of Textile Testing, CBS Publishers, 1996.
2. Elliot. B. Grover and Hamby. D.S. Textile Testing and Quality Control, Eastern Ltd.,
3. Satish K. Bhardwaj and Pradip, V. Metha, Managing Quality in Apparel Industry, New age International Publishers, 2000.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1		H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H		L		H	L	H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDC04	DSC – Principles of Pattern Making	4	4	Theory		

Introduction:

To Provide Basic Fundamental Of Pattern Draping About Different Styles In Draping Using Draping Manniquins.

Course Outcome :

CO1	:	To identify and explain functions of different tools and supplies.
CO2	:	To demonstrate use of different tools and supplies.
CO3	:	To use the draping manniquiuns using correct procedures.
CO4	:	To design the pattern using correct procedures.
CO5	:	To identify types of patterns.

UNIT-I

Body measurement –importance, preparing for measuring, ladies measurements, boys and men’s measurements. Standardizing body measurements –importance, techniques used. Relative length and girth measures in ladies /gentlemen Preparation of fabric for cutting –importance of grain in cutting and construction, steps in preparing the fabric for cutting.

UNIT-II

Pattern making –method of pattern making – (Drafting and draping),merits and demerits. Types of paper patterns (Patterns for personal measurements and commercial patterns) Principles of pattern drafting . Pattern details, steps in drafting basic bodice front and back and sleeve.

UNIT-III

Styles created by shifting of blouse darts , adding fullness to the bodice, converting darts to seam and partial yokes and incorporating darts in to seams forming yokes. Fitting - Standards of a good fit , steps in preparing a blouse for fitting , checking the fit of a blouse, solving fitting problems in a blouse ,fitting techniques.

UNIT- IV

Pattern alteration –importance of altering patterns, general principles for pattern alteration, common pattern alteration in a blouse. Pattern grading –definition , types , manual –master grades ,basic front ,basic back basic sleeve, basic collar and basic grading.

UNIT-V

Pattern layout- definition, purpose, rules in layout, types of layouts for length wise stripped designs, fabric with bold design, asymmetric designs, one way designs. What can be done if cloth is insufficient , fabric cutting ,transferring pattern marking, stay stitching, ease stitching.

Text Book:

Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai (1986)

Reference:

- 1.Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai (1986)
2. Zarapker System of Cutting- Zarapker. K. R, Navneet Publications Ltd.
- 3.Practical cutting and tailoring part II EshwasriAnwahi, Lakhraj Hans R.B Publications, Delhi

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H	H	L	H	H		H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDCP4DSC	Childrens 2	2	Practical			
Apparel Practical						

Introduction:

To familiarize and impart practical training to the students in construction of children's garment. Designing, drafting and constructing the following garments for the features Prescribed, List the measurements required and suitable materials for the garment. Calculate the cost of the garment, Calculate the material required-Layout method and direct measurement method.

Course Outcome :

CO1	:	Designing, drafting and constructing the following garments for the features Prescribed
CO2	:	To recognize and apply relevant technologies within fashion.
CO3	:	List the measurements required and materials suitable
CO4	:	Calculate the cost of the garment
CO5	:	Calculate the material required-Layout method and direct measurement Method.

Designing, drafting and constructing the following garments for the features.

Prescribed List the measurements required and materials suitable

Calculate the cost of the garment

Calculate the material required-Layout method and direct measurement method.

1. Bib- Variation in outline shape
2. Panty-plain or plastic lined panty
3. Jabla- without sleeve, front open (or) Magyar sleeve, back opens
4. Baba suit- knicker with chest piece attached (or) Romper
5. Gathering petticoat – princess line, without sleeve.
6. A-Linefrock
7. Summer frock- with or without sleeve/collars
8. Yoke frock- yoke at chest line, with open, puff sleeve, gathered skirt or frock-without sleeve
9. Knicker- elastic waist, side pockets
10. Shirt- open collar, with pocket.

Text Book:

Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai (1986)

Reference:

- 1.Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai (1986)
2. Zarapker System of Cutting- Zarapker. K. R, Navneet Publications ltd.
- 3.Practical cutting and tailoring part II EshwasriAnwahi, Lakhraj Hans R.B Publications, Delhi

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	L	H	H	H		H	H	L	L	L	H
CO2	H	H	H		H	L	L	H	H	L	L	H
CO3	L	H	H	L	H	H	L	L	L	H	H	H
CO4	L	H	H	L	H	H	H	H	L	H	L	L
CO5	H	L	L	H	H	L	H	H	H	H	H	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDC05	DSC – Care & MaintainanceOf Textiles	4	4			Theory

Introduction:

To encourage students to acquire knowledge about water, soaps , detergents and finishers and equipments used in laundry. To impart necessary information about the various type of fabric, their laundry procedure and stain removal techniques.

Course Outcome :

CO1	:	Gain knowledge on care and maintainance of textiles.
CO2	:	Know about the garment finishes.
CO3	:	Acquire knowledge on care and maintenance of textile materials to prolong the durability and appearance of the fabric.
CO4	:	Acquire knowledge about principles of washing.
CO5	:	Understanding the types of laundry.

UNIT-I

Water- hard and soft water, methods of softening water. Laundry soaps – Manufacture of soap (Hot process , cold process), composition of soap types of soap, soap less detergents , chemical action , detergent manufacture , advantages of detergents

.

UNIT-II

Finishes – Stiffening Agents – Starch (cold water and hot water) , Other stiffening agents, preparation of starch . Laundry blues , their application .

UNIT-III

Laundry equipment – for storage, for steeping and Washing – Wash board, suction washer, wash boiler, washing machine. Drying equipments – out door and indoor types . Irons and ironing board – types of iron (box, flat , automatic, steam iron) . Ironing board – different types.

UNIT-IV

Principles of washing – suction washing, washing by kneading and squeezing , washing by machine - Process details and machine details. Laundering of different fabrics – cotton and linen, woolens, coloured fabrics, silks, rayon and nylon.

UNIT-V

Special types of Laundry – water proff coats, silk ties, leather goods, furs, plastics, lace. Dry cleaning – using absorbents , using grease solvents. Storing – points to be noted. Stain removal – food stains, lead pencil, lipstick, mildew, nose drops, paint ,perfume, perspiration / mildew, tar, turmeric and kum- kum. Care labels – washing, bleaching, Drying, ironing and different placements of label in garments.

Text Book:

1. Booth J.E. Principles of Textile Testing, CBS Publishers, 1996.
2. Elliot. B. Grover and Hamby. D.S. Textile Testing and Quality Control, Eastern Ltd.,

References;

1. Textiles fabrics and their Selection – Wingate I B, Allied publishers Ltd, Chennai.
2. Fundamentals of Textiles and their Care- Susheela Dantyagi , Orient Longmann Ltd (1980).
3. Family Clothing – Tate of Glession , John Wiley & Sons Inc, Illinois.
4. Household Textiles and Laundry Work – DurgaDuelkar , Amla Ram & Sons, Delhi

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H	H	L	H	H		H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester :

Subject Code Subject Title Credit Lecture Tutorial Practical Type

19BCDCP5 DSC – Care & Maintenance
Of Textiles Practical

2 Practical

Introduction:

To encourage students to acquire knowledge about water, soaps, detergents and finishers and equipments used in laundry. To impart necessary information about the various types of fabric, their laundry procedure and stain removal techniques.

Course Outcome :

CO1	:	Know about the manufacturing of soap.
CO2	:	Know about the garment finishes.
CO3	:	Acquire knowledge on care and maintenance of textile materials to prolong the durability and appearance of the fabric.
CO4	:	Acquire knowledge about principles of washing.
CO5	:	Understanding the types of laundry.

Prepare samples for the following :

1. Manufacturing of soap (Hot & Cold Process)
2. Starching Process (Hot & Cold Process)
3. Laundry Blue
4. Principle of washing
5. Laundry of different fabric.
6. Dry cleaning
7. Stain removal
8. Study of various care labels.

Text Book:

1. Booth J.E. Principles of Textile Testing, CBS Publishers, 1996.
2. Elliot. B. Grover and Hamby. D.S. Textile Testing and Quality Control, Eastern Ltd.,

References;

1. Textiles fabrics and their Selection – Wingate I B, Allied publishers Ltd, Chennai.
2. Fundamentals of Textiles and their Care- Susheela Dantyaagi, Orient Longmann Ltd (1980).
3. Family Clothing – Tate of Glession, John Wiley & Sons Inc, Illinois.
4. Household Textiles and Laundry Work – Durga Dalkar, Amla Ram & Sons, Delhi.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H	H	L	H	H		H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester :

Subject Code Subject Title Credit Lecture Tutorial Practical Type

19BCDC06	DSC – Historic Costumes & Textiles	4	4	Theory
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Introduction:

This course facilitates an understanding of traditional costumes used in different states of India and orients the learners in the field of woven textiles of India. The learners are expected to know the costume of ancient civilization in apparel industry.

Course Outcome :

CO1	:	To identify and discuss concepts related to the historical background of textiles and fashion.
CO2	:	To recognize and apply relevant technologies within fashion.
CO3	:	Gain an historical knowledge of clothing and art history as a part of understanding the link between art and clothing.
CO4	:	Understands history and sociology are a part of era and periods.
CO5	:	Understand the different categories of fashion and its adoption.

UNIT-I

Beginning of Costume, Growth of Dress out of painting, cutting etc..., Study of dyed and printed textiles of India –Bhandhani, patola ,ikkat, kalamkari- in all the above types and techniques used. Study of woven textiles of India – Dacca Muslin, Banarasi/ Chanderi brocades, baluchar, himrus and amrus, Kashmir shawls, pochampalli, silk sarees of Kancheepuram.

UNIT-II

Costumes of India – Traditional Costume of different States of India - Tamil Nadu, Kerala, Andhra Pradesh, Karnataka ,Assam, Orrisa, Bihar, Mizoram, Tripura ,Nagaland, W.Bengal, Sikkim.

UNIT-III

Traditional Costume of different States of India; Maharastra, Rajasthan, Haryana, Himachal Pradesh, Uttarpradesh,Jammu and Kashmir, Gujarat, Madhyapradesh.

UNIT-IV

Indian Jewellery – jewelleries used in the period of Indus valley civilization ,Mauryan period Gupta Period , the Pallava and Chola Period ,Symbolic Jewellery of South India,Mughal period. Temple Jewellery of South India,Tribaljewellery A brief study of gems and precious stones.

UNIT-V

Traditional embroideries of India – Origin ,Embroidery stitches used –embroidery of Kashmir , Phulkari of Punjab ,Gujarat – Kutch and Kathiawar, embroidery of Rajasthan , Kasuti of Karnataka, Chickenwork of Lucknow, Kantha of Bengal – in all the above – types and colours of fabric /thread.

Reference:

1. Indian Jewellery – M.L Nigam, Lustre Press PvtLtd ,India (1999)
2. Indian Costume –G.H Ghosrye, Popular books Pvt Ltd
3. The costumes and textiles of India – JamilaBrijBhushan, D B Taraporevala Sons & Co, Bombay(1958).
4. Costumes of India –DorrisFlynn, Oxford andIBH Publishing Co ,Delhi (1971).
5. Costumes of India and Pakistan – Das S.N , DB Taraporevala Sons and co, Bombay(1956).

Text Book :

1. Indian Jewellery - M.L. Nigam, Lustre Press Pvt Ltd, India .
2. Costumes and Textiles of India – JamilaBrijBushan
3. Costumes of India – DorrisFlynn

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	L	H	H	H		H	H	L	L	L	H
CO2	H	H	H		H	L	L	H	H	L	L	H
CO3	L	H	H	L	H	H	L	L	L	H	H	H
CO4	L	H	H	L	H	H	H	H	L	H	L	L
CO5	H	L	L	H	H	L	H	H	H	H	H	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDCP6DSC	–Womens 2		2	Practical		
Apparel Practical						

Introduction:

To design different women garments. To learn the process of drafting and construction of women's garments.

Course Outcome :

CO1	:	Designing, drafting and constructing the following garments for the features Prescribed
CO2	:	To recognize and apply relevant technologies within fashion.
CO3	:	List the measurements required and materials suitable
CO4	:	Calculate the cost of the garment
CO5	:	Calculate the material required-Layout method and direct measurement method.

Designing, drafting and constructing the following garments for the features prescribed

List the Measurements required and Materials suitable

Calculate the cost of the garment

Calculate the material required –Layout method and Direct measurements method

1. Saree Petticoat- Six Panel , Decorated bottom.
2. Skirts – Circular/umbrella/panel with style variations.
3. Blouse- front open ,Fashioned neck, Waist band at front , with sleeve.
4. Salwar (or) Churidhar (or) Parallels (or) Bell Bottom
5. Kameez – with /without slit, with or without flare ,with /without opening ,with or without panels, with /without yoke.
6. Nightie –With yoke, front open , with sleeve , full length.
7. Ladies pant – variation in styles.
8. Maxi
9. Wrap around skirt

Text Book:

Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai (1986)

Refrence:

1. Scientific garment quality –K M Illege and Sons , Plot No. 43 , SomuvarPethpune 411011
2. Easy cutting –Juvekar commercial Tailors Corporation p vt 166 Dr.Ambedkar Road dadar.
3. Commercial system of cutting - Juvekar commercial Tailors Corporation p vt 166 Dr.Ambedkar Road dadar.
4. Zarapker system of cutting –K.R Zarapker ,Navneet publication ltd.

5. Dress making- SmtThangamSubramaniam Bombay Tailoring and embroidery college ,32
6. North park street ,Ambattur , channi.
7. Pratical clothing construction – Part I and II Mary Mathews ,cosmic Press Chennai.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H	H	L	H	H		H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester :

Subject Code

19BCDC07

Subject Title

DSC – Fashion
Photography

Credit

4

Lecture

4

Tutorial

Practical

Type

Theory

Introduction:

To enable students to understand theoretical and technical aspect of fashion photography.To understand the process of fashion industry with sense of Photography perspective to the students and enable them to gain an insight into professionals.

Course Outcome :

CO1	:	To understand the entire process of Fashion Photography
CO2	:	To analyse the various aspect of photography process.
CO3	:	To evaluate and justify the various perspectives of fashion industry
CO4	:	To apply and enhance the knowledge in the field of fashion photography
CO5	:	To create and alleviate the technical aspects in Fashion Photography

UNIT - I

Effects of Lighting with Specific Purpose, the Color Spectrum, and Studio Photography, Strategies & Make-Up, Aesthetics of Fashion Photography, Color theme & photography.

UNIT-II

Cameras & Types of Cameras, Understanding the Human Body, Understanding Fashion, Processing of White & Black.

UNIT- III

Introduction to Studio Lights & Effects, Different Light Sources & Comparative Study, Aperture and Shutter Speed, Indoor & Out door photography.

UNIT- IV

Photo Review with Experts/ Mentors, Over and Under Exposures, Studying Various Fashion Styles.Ramp photoshoot.

UNIT- V

Pre-Model Shoots, Outdoor Fashion Shoot, Creative Lighting, Studying Editing Software, Glamour Lighting.

Textbook:

1. The Digital Filmmaking Handbook – Mark Brindle

Reference :

1. Professional lighting handbook – Verne Carlson, Sylvia eCarlson
2. Visual Communication Images with messages – Paul martinLester
3. The Psychology of Composition – S MEisentein
4. Photoshop – Tutorial –ebook
5. CorelDraw – Tutorial -ebook

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes								
	P01	PO2	P03	P04	P05	P06	P07	P08	P09
CO1	H	H	L	L	M	L	M	M	M
CO2	H	H	H	H	M	M	H	H	H
CO3	H	L	L	L	M	M	H	H	H
CO4	H	L	L	H	M	M	H	H	H
CO5	H	H	H	H	H	H	H	H	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDCP7	DSC – Fashion	2			2	Practical

Photography Practical

Introduction:

To enable the Student to gain knowledge in fashion photography.To gain knowledge in brand making and developing fashion in media.

Course Outcome :

CO1	:	Students will gain the skills to do a brand and develop the art of photography.
CO2	:	Acquire knowledge the about photography.
CO3	:	Develop the skills in photo designing.
CO4	:	Gain knowledge about animation.
CO5	:	To evaluate and justify the various perspectives of fashion industry

Photography

1. Product photography
2. Modelling photography
3. Indoor and Outdoor photography

Experiments

1. Brand Name and Logo design
2. Image editing and special effect
3. Design packing for the brand
4. Logo Animation
5. Product Animation
6. Web designing
7. Story Board
8. Video Capturing and editing
9. Video and audio mixing
10. Add Flim making.

Textbook:

1. The Digital Filmmaking Handbook – Mark Brindle

Reference :

1. Professional lighting handbook – Verne Carlson, Sylvia eCarlson
2. Visual Communication Images with messages – Paul martinLester
3. The Psychology of Composition – S MEisentein
4. Photoshop – Tutorial –ebook
5. CorelDraw – Tutorial -ebook

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes								
	P01	PO2	P03	P04	P05	P06	P07	P08	P09
CO1	H	H	L	L	M	L	M	M	M
CO2	H	H	H	H	M	M	H	H	H
CO3	H	L	L	L	M	M	H	H	H
CO4	H	L	L	H	M	M	H	H	H
CO5	H	H	H	H	H	H	H	H	H

Semester :

Subject Code
19BCDC08
Of Fashion

Subject Title
DSC – Dynamics

Credit
4

Lecture
4

Tutorial

Practical

Type
Theory

Introduction:

Help to learn about terms related to fashion industry and acquire knowledge about the colour theory and understanding about designs and its elements.

Course Outcome :

CO1	:	Helps to learn about fashion industry.
CO2	:	To acquire the basic skills and knowledge of designs and its elements.
CO3	:	Identify to know about the colour theories.
CO4	:	Acquire the knowledge about dress designing.
CO5	:	Understanding about factors of fashion.

UNIT - I

Origin of Fashion – Importance of fashion - Development of fashion, Components of fashion- Design Details, Texture ,Color and Silhouette . Types of silhouette – Natural Body, Slim line, Wedge , Hour Glass , Extreme Volume Silhouette.

UNIT - II

Fashion Focus – The designers Role , The Manufacturers Role, The Retailers Role . Scope of Fashion Business – Primary Level, The Secondary Level , The retail level and the Auxiliary level. Study about International Designers – Fashion related cycle and theories.

UNIT - III

The Movement of Fashion - Factors influencing fashion movement -Accelerating factors, Retarding factors, and Recurring fashions. Predicting the movement of fashion.

UNIT - IV

Types of designers – High fashion Designer, Stylist, and Freelance Designer. Sources of design inspiration. Indian fashion Designers- Manish Malhotra, Ritukumar, Rituberri, TarunTahilani, Wendell Rodricks, Abu Jani and SandeepKhosla, JJ Valaya, Rina Dhaka, Manish Arora, and RohitBal.

UNIT - V

Study of International Fashion centers – France, Italy, England , Germany, Canada , New York . Study of International Fashion Brands – Women's Wear, Men's Wear, Kids Wear, Sports Wear, Cosmetics and Accessories.

TEXT BOOKS:

1. Elaine Stone. 2001. **The Dynamics of Fashion**. Fair child publications, New York.
2. Gini Stephan Friens. 1999. **Fashion from concept to consumer**. [Sixth Edition]. Prentice Hall.

REFERENCE BOOKS:

1. Ellen Diamond. 2007. **Fashion Retailing**. Pearson Education. INC and Dorling Kinderley Publishing, Delhi.
2. Kitty G, Dickerson. 2005. **inside the fashion Business**. Pearson Education. INC and Dorling Kinderley Publishing, D

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	L		H	H	H	H	L	L	L	H	H
CO2	H	H	H	L	L	H		H	H	H	H	H
CO3	H	L	H	L	L	H	L	H	H	L	H	H
CO4	H	L	H	H	L		H	L	L	H	L	H
CO5	L	H	H	L	H	L	H	H	L	H	H	

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDCP8	DSC – Mens Apparel Practical	2			2	Practical

Introduction:

To design different women garments. To learn the process of drafting and construction of men's garments.

Course Outcome :

CO1	:	Designing, drafting and constructing the following garments for the features Prescribed
CO2	:	To recognize and apply relevant technologies within fashion.
CO3	:	List the measurements required and materials suitable
CO4	:	Calculate the cost of the garment
CO5	:	Calculate the material required-Layout method and direct measurement method.

Design, Draft and construct the following Men's garments.

1. Slack Shirt – with collar, Half Sleeve, Patch pocket.
2. Full sleeve shirt – shirt collar, patch pocket, full sleeve with sleeve placket and cuff.
3. S.B. Vest - With / without collar, No sleeve, Fancy button attached.
4. Pleated Trousers - Pleat in front, Darts at back, side pocket, fly with button /zip, Belt with adjustable strap.
5. House coat – with collar and full sleeve without cuff.
6. Kalidhakurtha - Kali piece, side pocket, round necks, half open.
7. Pyjama – Waist elastic and tape attached, fly.
8. Men's pant- front opening with zipper placket, side pocket variation in bottom design.

Text Book:

Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai (1986)

Reference:

1. Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai (1986)
2. Zarpker System of Cutting- Zarpker. K. R, Navneet Publications ltd.
3. Practical cutting and tailoring part II Eshwasri Anwahi, Lakshraj Hans R.B Publications, Delhi

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012

CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H	H	L	H	H		H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester :

Subject Code
19BCDC09

Subject Title
Core- Dyeing &
Printing Methods

Credit
4

Lecture
4

Tutorial

Practical

Type
Theory

Introduction:

The learners are expected to know about the types of dyeing and printing methods and processing of printing and types of printing machines.

Course Outcome :

CO1	:	To obtain knowledge of dyeing process.
CO2	:	Identifying the types of dyeing machines and processes.
CO3	:	Understand the types of printing and printing machines.
CO4	:	To attain knowledge and analysis the parameters for printing techniques.
CO5	:	To get hold knowledge on the eco-friendly processes and the effluent treatments.

UNIT - I

Dyeing: Classification of dyes — Dyeing of cotton with Reactive dyes, vat dyes and Sulphur dyes – Recipe and procedure– Dyeing of polyester with Disperse dyes – Recipe and procedure, Dyeing of Wool, Nylon, Silk with Acid and Basic dyes, Dyeing of acrylic with basic dyes – Recipe and procedure .

UNIT-II

Dyeing Machines, Influence of Physical and Chemical Structure of Fibres on Dyeability – Types of Dyeing Machine, continuous loose fibre dyeing machine, fibre sample dyeing machine, Conical pan loose stock dyeing machine, Tubular yarn dyeing Machine, Yarn package dyeing M/c Jet & winch dyeing - Recent developments in dyeing.

UNIT – III

Printing : Comparison between dyeing and printing – styles and methods of printing, Ingredients in printing paste. Batik style on cotton with reactive dyes. Screen and Rotary screen design preparation –Table screen printing , Flat bed screen printing machine, Rotary screen printing machine Study of curing machine and Steamer

UNIT – IV

Printing: Styles of Printing - Methods of Printing, Block, Flat, Rotary Screen, engraved Roller, Transfer, Duplex printing, Pigment Printing, Batik, Khadi - Fixation and After Treatment - Print Paste Formulation.

UNIT – V

Natural Dyes - History, importance. Types of natural dyes-plant, animals and mineral -Madder, indigo, catechu, myrobalan, pomegranate, lac, alum.Extraction methods & application methods. Characteristics of Natural dyed fabrics. Commercially available natural dyes.Recent

developments in natural dyes. Effluent treatment plant process sequence in textile Industry, Advanced methods for ETP.

REFERENCE:

1. C.W Pellow, Dyes and dyeing ,Abhishek Publications, 2000..
2. Sara J. Radolph and Anna I. Langford, Textile, Prentice Hall, New Jersey, 2002.
3. Z.J. Grosicki ,Watson's design and Colour- Elementary Weaves and Figured Fabrics.
4. Wood head Publishing Limited, 2004. 4. Dyeing and chemical technology of textile fibers, Charles Griffin co, London
5. Shenai. V.A Technology of Textile Sevak Publication , Processing Vol.e, 306, Shri Hanuman Technology of Bleaching Ind. Estate ,Edn, 3 1981., Gousmbekar Road, Wadala, Bombay –37

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H		H		H	L	H		L	L
CO3	H	H	H	H	H	L	L	L		H		L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L	H	H	L	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDCP9	Core- Dyeing & Printing Methods Practical	2			2	Practical

Introduction:

The learners are expected to know about the types of dyeing and printing methods and processing of printing and types of printing machines and get the practical knowledge of dyeing and printing techniques.

Course Outcome :

CO1	:	To obtain knowledge of dyeing process.
CO2	:	Identifying the types of dyeing machines and processes.
CO3	:	Understand the types of printing and printing machines.
CO4	:	To attain knowledge and analysis the parameters for printing techniques.
CO5	:	To get hold knowledge on the eco-friendly processes and the effluent treatments.

Prepare samples by natural and chemical process.

1. Fabric paints
2. Printing of cotton using block – vegetables and wooden blocks.
3. Tie and Dye
4. Batik
5. Flock Printing.
6. Screen Printing
7. Stencil Printing
8. Print with waste materials.
9. Printing on cotton fabric with natural colours.
10. Dyeing with natural dye.

REFERENCE:

1. C.W Pellow, Dyes and dyeing ,Abhishek Publications, 2000..
2. Sara J. Radolph and Anna I. Langford, Textile, Prentice Hall, New Jersey, 2002.
3. Z.J. Grosicki ,Watson's design and Colour- Elementary Weaves and Figured Fabrics.
4. Wood head Publishing Limited, 2004. 4. Dyeing and chemical technology of textile fibers, Charles Griffin co, London

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H		H		H	L	H		L	L

CO3	H	H	H	H	H	L	L	L		H		L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L	H	H	L	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDC10DSC	Computers In The Garment Industry	4			Theory	

Introduction:

To educate the students about the basic computer software and to train them with fashion sketching software like coral draw, adobe Photoshop.

Course Outcome :

CO1	:	To upgrade their digital fashion design skills to industry standards.
CO2	:	Design patterns and garments using various drawing techniques.
CO3	:	Illustrate various garment components, accessories & human anatomy
CO4	:	To enable designers to create and produce various fashion design presentation products, such as digital trend and concept boards, textile color developments, and digital spec sheets for a portfolio
CO5	:	To gain the knowledge of tools and palettes developed, gaining speed and accuracy in creating flats and sketches

UNIT-I

Classification of computers, computer generations, computer specification ,organization of computer sections .Types of storage devices (primary and secondary) ,input devices , output devices .

UNIT-II

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.

UNIT-III

CAD in designing Textile designing – Weaving , Knitting and printing. Creating embroidery designs. Garment designing – 2D and 3D forms .

UNIT-IV

CAD in pattern making and grading – system description – information flow – process involved in pattern making , process involved in pattern grading.

UNIT-V

Computer application in fabric defect checking, laying / spreading, cutting marker planning ,labeling – parts and functions. Computerized sewing machines .

References;

- 1.Clothing Technology – HanneloreEberle et –al, Verlaag Europa – Lehrmittel, Vollmer Gmbh& Co 4287, Haan – Gruilen.
- 2.Computer Fundamentals – P K Sinha , BPB Publications, Delhi (1992)
- 3.The technology of clothing manufacture – Harold Carr and Barbara Latham, Blackwell Ltd (1994)
- 4.Pattern Grading for Women's Cloths The Technology of sizing – Gerry Cooklin, Blackwell Science Ltd (1990)

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H		H	H	H	H	L	L	L	L	H	H
CO2	L	L	L		H	H	H	H	H	L	L	L
CO3	H	H	L	L		L	L	L	H	H	H	H
CO4	L	L	H	H		H	H	L	H	L	H	L
CO5	H	H	L	L	L		L	H	H	L	H	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDCP10	DSC – Computer In The Garment Industry	2		2	Practical	

Introduction:

To educate the students about the basic computer software and to train them with fashion sketching software like coral draw, adobe Photoshop.

Course Outcome :

CO1	:	To upgrade their digital fashion design skills to industry standards.
CO2	:	Design patterns and garments using various drawing techniques.
CO3	:	Illustrate various garment components, accessories & human anatomy
CO4	:	To enable designers to create and produce various fashion design presentation products, such as digital trend and concept boards, textile color developments, and digital spec sheets for a portfolio
CO5	:	To gain the knowledge of tools and palettes developed, gaining speed and accuracy in creating flats and sketches

1. Microsoft Word, Excel, PowerPoint:

Microsoft word, excel and power point– Introduction, features and its applications.

2. Adobe Photoshop :

Introduction to Photoshop - Photoshop tools in detail, enhancing images, Masking, transforms, working with layers. Merging & blending layers, text effects. Creating an advertising brochure. Painting & rendering in Photoshop, & 3D effects, making collage in Photoshop, Applying filters

3. Coral Draw:

Introduction to Coral Draw. Learning basic tools of Coral Draw. Using Basic Shapes, Transformations, Duplicate, Cloning. Applying fill, outlines, special effects, shaping objects, creating custom.

4. **Shapes** using basic shapes and other drawing tool, working with the text, Effects, Shaping object with envelope tool, Power Clip objects, splitting and erasing portion of objects

5. Tuka CAD:

Tuka CAD- Introduction, features and its applications

Textbook:

1. Computer Fundamentals; Pradeep Sinha, BPB Pub, II Edition, USA, 2001.

Reference:

1. Computer Colour Analysis; Sule, New Age Enterprises, Delhi, 2014.

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	L	L	H	H	L	L	H	L	

CO2	H	H	H	L	L	H	H	L	L	H	L	L
CO3	H	H	H		L	L	H			L	L	
CO4	H	H	L	L		H	H	L	L			L
CO5	H	H	H			H	H			L	L	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDA01	Allied – Fashion Retailing	4	4			Theory

Introduction:

To develop an understanding of evolving apparel retailing industry and 4 P's of marketing and create awareness among students.

Course Outcome :

CO1	:	To create an awareness and understanding of the evolution and current structure of the apparel retailing industry in India.
CO2	:	To provide an understanding of the relative strengths and weaknesses of apparel retail and retail operations and an appreciation of the role of multichannel.
CO3	:	To develop an understanding and appreciation of the four P's of marketing, basic principles of visual merchandising and effective customer handling practices.
CO4	:	To provide an overview and insights into the evolving business of apparel retailing marketing.
CO5	:	To create an awareness of the broad categories of retailing business models and the important factors governing the design of online apparel stores.

UNIT- I

Overview of fashion retailing - Uniqueness of apparel retailing, types of fashion retail outlets- Department stores, specialty stores, chain stores, discount retailers, supermarket retailing, convenience stores, contractual retailers, ware house retailers, non-store retailers.

UNIT- II

Strengths & weaknesses of apparel retail & retail from vendor and consumer points of view. Overview of multichannel retailing - Organisational structure, Advantages.

UNIT- III

4 P's of marketing - Product - Merchandise assortment, Place - Store location and layout, Price - Pricing strategy, Promotion - In-store promotion and advertising.

UNIT- IV

Visual merchandising - Seasons, promotions, special sales, themes. Type of displays- Window display, Interior displays. Elements of display- Merchandise, forms, props, signage, lighting. Common problems in display. Roles and responsibilities of retail store personnel - consumer handling.

UNIT- V

Basics of retail business - Role of retail in marketing system, retail evolution in India: structural changes. Target group and demographics role of a merchandiser, principles and techniques of merchandising.

Textbook:

1. Leslie David Burns, Nancy O. Bryant, 2011 The Business of Fashion, Fairchild Publications.
2. Elanine Stone, 1987, Fashion Buying, McGraw- Hill.

Reference:

1. Mary Frances Drake, Janice Harrison Spoone, Herbert Greenwald, 1992, Retail Fashion

Promotion and Advertising, Macmillan.

2. Michele M. Granger, Tina M. Sterling, 2011, Fashion Entrepreneurship Retail Business Planning, Fairchild Publications.

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	L	L	H	H	L	L	H	L	
CO2	H	H	H	L	L	H	H	L	L	H	L	L
CO3	H	H	H		L	L	H			L	L	
CO4	H	H	L	L		H	H	L	L			L
CO5	H	H	H			H	H			L	L	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDA02	Allied – Visual Merchandising	4	4			Theory

Introduction:

Understand the terminologies and influences of visual merchandising in India.

Course Outcome :

CO1	:	Knowledge on visual merchandising in India.
CO2	:	Knowledge on merchandise mix.
CO3	:	Knowledge on store management in merchandising.
CO4	:	Knowledge on store design and display.
CO5	:	Knowledge on store image and security.

UNIT- I

Introduction to Visual Merchandising (VM): Introduction, objectives, concept of visual merchandising, growth of visual merchandising, visual merchandising in India, scope of visual merchandising in India, visual merchandising as a support for positioning strategy, prospects of visual merchandising, challenges in visual merchandising, the common challenges and ways to overcome the visual merchandising challenges.

UNIT- II

The Merchandise Mix: Introduction, objectives, concept of merchandise mix, merchandise line, the assortment of products, assortment strategy, merchandise mix of show off, role of a merchandiser, other atmospherics in merchandising, colour scheme, lighting.

UNIT- III

Fashion and clothing psychology, Colour psychology.**Store Management** in Merchandising: Introduction, objectives, types of stores, location of a store, types of retail locations, planning a store layout, various types of store layouts, grid layout, forced-path layout, free-form layout, boutique layout, combined layout, store space allocation, heads of space allocation in a store, managing customer navigation in a store, general rules of customer traffic in a store, the loop for guiding the shoppers through a store.

UNIT- IV

Store Design and Display: Introduction, objectives, concept of store design and display, purpose and importance of display, rules of display planning, display settings, store design, exterior of a store, interior of a store, window displays, merchandise presentation strategies, color blocking, other techniques of merchandise placement, physical materials used to support the display, components of display, some useful display fixtures, shelves, gondolas, round racks, four ways, saccades and fixation, replenishes, planogramming.

UNIT- V

Store Image & Security: Introduction, objectives, concept of image, mix elements of image mix, merchandise, fixtures, sound/music, odour, visuals, employees, elements that levy negative impact on shoppers, change of image, security issues.

Textbook:

1. Visual merchandising – Tony Morgan, 2011.
2. Visual merchandising – Swati Bhalla, Anuraag S. – 2010.
3. Visual merchandising and display – Martin M. Pegler – 2011.
4. Visual merchandising for fashion – Sarah Bailey, Jonathan Baker – 2014.

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H			H	L	L	L	L	L	
CO2	H	H	H			H	H	L	L	L	L	
CO3	H	H	L			H	H	L	L	H	H	
CO4	H	H	L			H	H	H	H	H	H	
CO5	H	H	L			H	L	H	H	H	H	

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDS01	Skill – Surface Enrichment Practical	2			2	Practical

Introduction:

To provide knowledge and training about the Hand Embroidery used for Fabric Embellishment. To master the art of making different Embroidery stitches and application of Decorative items.

Course Outcome :

CO1	:	To acquire knowledge about hand embroidery.
CO2	:	To know the collection of different traditional embroidery.
CO3	:	To develop skills in creating types of smocking.
CO4	:	To develop creative ability in designing embroidery using sequence work.
CO5	:	Can utilize the skill gained in embroidery by using in garments.

Prepare samples for the following

1. Hand embroidery – 20 stitches -10 samples
2. Traditional embroidery
 - Embroidery of Kashmir
 - Phulkari of Punjab
 - Gujarat – Kutch embroidery
 - embroidery of Rajasthan
 - Kasuti of Karnataka
 - Chickenwork of lucknow
 - Kantha of Bengal.
3. Machine Embroidery- 3 samples.
4. Smocking -3types
5. Applique (machine / hand)- 3 types
6. Laces – 6 types
7. Bead Work -1 sample
8. Sequins work -1 sample
9. Zardosi work -1 sample
10. Tassels and fringes -2-3 samples.
11. Mirror work –Shapes (Round, square, diamond) 3 samples
12. Fixing the stones-1 sample.

Text Book:

1. Traditional Needle Arts Cross Stitch, Katrin,Thunderbay Press, I Edition, California,2011.

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H		H	H	H	H	L	L	L	L	H	H
CO2	L	L	L		H	H	H	H	H	L	L	L
CO3	H	H	L	L		L	L	L	H	H	H	H
CO4	L	L	H	H		H	H	L	H	L	H	L
CO5	H	H	L	L	L		L	H	H	L	H	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDS02	Skill – Fashion Ornaments Practical	2	2	Practical		

Introduction:

To demonstrate different types of ornaments in recent trends and train students to creatively design jewellery of various materials in existence.

Course Outcome :

CO1	:	To acquire knowledge on different types of ornaments.
CO2	:	To train students to design jewellery creatively using various materials.
CO3	:	Develop skills in designing jewellery using craft items.
CO4	:	To gain knowledge in making bridal ornaments.
CO5	:	Develop skills in designing jewellery for fashion show.

1.Prepare samples for the following.

- Teracotta
- Quilling Jewellery
- Antique Jewellery
- KundanJewellery
- Crystal Jewellery
- Bead Jewellery
- Wooden Jewellery
- SilkthreadJewellery

2.Prepare samples using craft items

- Earring
- Chain
- Studs
- Anklets
- Finger rings
- Hair band
- Head bands
- Hair clip

3. Aset of ornaments and accessories for a Western outfit .

4.A set of Bridal Ornaments and accessories - select a Bridal costume.

5.A set of Ornaments and accessories for a Fashion Show to suit a garment.

Textbook:

Design Ideas and Accessories, Charga,English Edition Publishers, IV Edition, Chennai, 2002

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H		H	H	H	H	L	L	L	L	H	H
CO2	L	L	L		H	H	H	H	H	L	L	L
CO3	H	H	L	L		L	L	L	H	H	H	H
CO4	L	L	H	H		H	H	L	H	L	H	L
CO5	H	H	L	L	L		L	H	H	L	H	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDS03	Skill – Fashion	2			2	Practical

Accessories Practical

Introduction:

To demonstrate different types of accessories in recent trends and train students to creatively design accessories using various materials in existence and trained to make accessories for fashion show according to their garment.

Course Outcome :

CO1	:	To acquire knowledge on different types of accessories.
CO2	:	To train students to design accessories creatively using various materials.
CO3	:	Develop skills in design accessories for fashion show.
CO4	:	To gain knowledge in making accessories using craft items.
CO5	:	Develop skills in designing accessories for portfolio according to their garment.

1. Hand bag – Any three types _
2. Hat – Any two types
3. Bow – Decorative bow and formal bow
4. Belt – For boy and girl
5. Foot wear – Any three types9. Belts – any 2 types.
6. Purse and pouches – Any two types
7. Hair band and head bands – Any four types
8. Watches – Any two types
9. Cellphone pouch
10. Tassels
11. Fringes
12. Fabric flower making.
13. Paper bag
14. Pompom hanging.

Textbook:

Design Ideas and Accessories, Chargava, English Edition Publishers, IV Edition, Chennai, 2002

Mapping of Course Outcomes with Program Outcomes:

	Program Outcomes
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Course Outcomes	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H		H	H	H	H	L	L	L	L	H	H
CO2	L	L	L		H	H	H	H	H	L	L	L
CO3	H	H	L	L		L	L	L	H	H	H	H
CO4	L	L	H	H		H	H	L	H	L	H	L
CO5	H	H	L	L	L		L	H	H	L	H	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDS04	Skill – Beauty Care - I Practical	2		2	Practical	

Introduction:

To acquaint student on beauty care and to develop skills in maintaining their hair and skin.

Course Outcome :

CO1	:	To acquire knowledge on beauty care.
CO2	:	To acquire knowledge about face treatment methods.
CO3	:	Come to know about the maintainance of hair and skin care.
CO4	:	To train students in different types of hair styles for fashion shows.
CO5	:	Develop skills to do beauty care during fashion shows and other occasions.

1. Threading
2. Cream bleaching
3. Manicure
4. Pedicure
5. Facial –Normal skin
6. Basic Hair styles
7. Basic hair cuts

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H	H	L	H	H		H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDS05	Skill – Beauty Care - II Practical	2			2	Practical

Introduction:

To acquaint student on beauty care and to develop skills in maintaining their hair and skin.

Course Outcome :

CO1	:	To acquire knowledge on beauty care.
CO2	:	To acquire knowledge about face treatment methods.
CO3	:	Come to know about the maintainance of hair and skin care.
CO4	:	To train students in different types of hair styles for fashion shows.
CO5	:	Develop skills to do beauty care during fashion shows and other occasions.

1. Pimple treatment
2. Dark circles
3. Pigmentation
4. Bridal make up
5. Dandruff treatment
6. Dye application
7. Mehendi application

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H	H	L	H	H		H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L
CO4	L	H	H	L		H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L		H	L	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDS06	Skill – Home Textiles Practical	2		2	Practical	

Introduction:

To gain knowledge in Soft furnishings and in home textiles. To develop skills in creating home furnishing products. Get an idea for furnishing home textiles for different people.

Course Outcome :

CO1	:	To design and construct home furnishings.
CO2	:	To have a collection of home furnishings for different people.
CO3	:	To develop skills in creating home furnishing product.
CO4	:	To develop creative ability in designing home furnishing.
CO5	:	Can utilize the skill gained in furnishing for different types of rooms.

Prepare samples for the following :

1. Design and Construct Bed-linens.
- 2 Design and Construct Table -linens
3. Design and Construct Curtains (any 4 types)& Draperies (any 2 types).
4. Design and Construct. Kitchen linens.
5. Design and Construct wall-hanging.
6. Design and Construct door-hanging.
7. Design and Construct door-mats.
8. Design and Construct bedding for new born baby.
9. Design and Construct Home furnishing for children's room (boys or girls).
10. Design and Construct Home furnishing for an individual person (Male or Female).

References

1. Cheryl Mendelson, Home Comforts-the arts and science of keeping home, published by Scriber, New York, 2005.
2. Hamlyn octopus, Cushions and Pillows- professional skills –made easy, Octopus publishing group, New York, 2001.
3. Magi Mc McCormick Gordon, The ultimate sewing Book 200 sewing ideas for you and your home, Collins and Brown, London, 2002.
4. Anne van Wagner Childs Leisure Arts- Inc., Sew no more Home Décor, Arkansas, U.S.A, 1993.

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H		H	H	H	H	L	L	L	L	H	H

CO2	L	L	L		H	H	H	H	H	L	L	L
CO3	H	H	L	L		L	L	L	H	H	H	H
CO4	L	L	H	H		H	H	L	H	L	H	L
CO5	H	H	L	L	L		L	H	H	L	H	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDS07	Skill – Computer Aided Designing Practical	2			2	Practical

Introduction:

To develop and implement CAD techniques in pattern making.To understand the marker making and grading using CAD. To develop skills in creating recent garment styles using CAD.

Course Outcome :

CO1	:	Student will have knowledge on CAD pattern making on garment created.
CO2	:	Student will be familiar with grading techniques in CAD. testing equipment .
CO3	:	To understand the marker making and grading using CAD.
CO4	:	To develop skills in creating recent garment styles using CAD.
CO5	:	Student can utilize the skill gained in CAD portfolio.

Create the following designs

1. Motifs / small designs.

2. Embroidery designs for Kerchiefs , Neck lines

3. Chest prints for T-shirts

4. Children's Garments (any one)

Bib, Knicker, Jabla, Frocks, Middi and Tops .

5. Women's Garments (any one)

Churidhar, Full gowns, Princess line Dress, House coats, Aprons, Nighties

6. Men's Garments (any one)

S B vest , T- Shirt , Shirts , Kurtapyjama

7. Design Garments for the following by theme.

- Party Wear – Women ,Men, Children.
- Sports Wear- Tennis, Basket ball/foot ball (men and Women), Golf, any other.
- Fashion show – Children, men and women
- Winter Wear - Children, men and women
- Summer Wear - Children, men and women
- Spring Wear - Children, men and women
- School uniforms – Preschool , school, higher secondary and college going students-boys and girls.

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H		H	H	H	H	L	L	L	L	H	H
CO2	L	L	L		H	H	H	H	H	L	L	L

CO3	H	H	L	L		L	L	L	H	H	H	H
CO4	L	L	H	H		H	H	L	H	L	H	L
CO5	H	H	L	L	L		L	H	H	L	H	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDS08	Skill - Fashion	2			2	Practical
Sketching Practical						

Introduction:

In advanced fashion sketching, students gain more experience drawing the figure, and learn to use Croquis (quick sketches with loose drawings of clothes). Students learn how to capture fashion figure poses on paper and gain a better understanding of proportion and techniques in sketching.

Course Outcome :

CO1	:	To exploit colours in informed and creative way.
CO2	:	To expertise in translating design ideas to fashion sketches.
CO3	:	Capable to use fabric painting to create fashionable designs.
CO4	:	To built new designs for garments.
CO5	:	To intend in different types of drawing fashion accessories.

UNIT – I

Lines and line drawings – object drawing and perspective view drawings, enlarging and reducing motifs. Learning the usage of various drawing and sketching mediums- pencils, ink, charcoal, brushes, crayons, water color and poster colors. Drawing a stick figure for both normal and fashion figure. Forming a fleshy figure over a stick figure.

UNIT – II

Creating illustrations with various garment styles for Men, Women and Children – for casual wear, party wear and sports wear.

UNIT – III

Drawing the stylized figures of Men, Women and Children (using 10 heads or 12 heads).

UNIT – IV

Drawing garments for different seasons – summer, winter, autumn and spring – for Men, Women and Children.

UNIT – V

Men and Women illustration on the background of party and office, children illustration on the background of party and picnic.

REFERENCES:

1. Fashion Design Drawing & Presentation, Ireland Patrick John.
2. Fashion design Illustration: Children, Ireland Patrick John,
3. Fashion Design Illustration : Men, Ireland Patrick John
4. Foundation in fashion design and illustration – Julian Seaman.
5. Fashion Sketch Book, Fair child publication, New York

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H		H	H	H	H	L	L	L	L	H	H
CO2	L	L	L		H	H	H	H	H	L	L	L
CO3	H	H	L	L		L	L	L	H	H	H	H
CO4	L	L	H	H		H	H	L	H	L	H	L
CO5	H	H	L	L	L		L	H	H	L	H	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDE01	DSE – Internship Report In Spinning Unit	4	Practical			

Introduction:

The internship experience is designed to provide students working towards certificates and Associate in apparel industries with an opportunity to develop Insight into the practical application of academic knowledge.

Course Outcome :

CO1	:	To demonstrate readiness to enter the fashion industry.
CO2	:	To Analyze impact of geography, technology, political systems, religion and economic forces in textile and apparel design and production.
CO3	:	To Assess the influence of state, federal, and international regulations on the development, production and distribution of apparel and textile products.
CO4	:	To Identify employment opportunities and the qualifications of fashion industry careers.
CO5	:	To Compare and contrast the interrelationships of physique apparel production on fabric, style, price point, target market and art element and principles.

**Internship with any garment based industry or company for a minimum period of 15 days.
A report to be submitted for evaluation**

Documentation should contain the following interview schedule

- Introduction
- Aim
- Objectives
- Hypothesis
- Procedure
- Design
- Pictures
- Questionnaire for survey / information collection.
- Results and discussion
- Summary and conclusion
- Bibliography

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	H	H	L	H	L	H	H	L	H	H	L
CO2	H	H	H	L	H	L	H	H	L	L	H	L
CO3	L	H	H	L		H	L	H	L	L	L	L
CO4	L	H	L	L	L	H	H	L		H	L	H
CO5	L	H	H	L		L	L	L	L	L	L	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDE02	DSE – Entrepreneurial Development & Management	44	Theory			

Introduction:

To develop and strengthen entrepreneurial quality and motivation in students.To impart entrepreneurial skills and understandings to run a business effectively and efficiently. Students will gain knowledge and skills needed to run a business.

Course Outcome :

CO1	:	Understand the different terms of entrepreneurship and development of the business concept categories and their characteristics.
CO2	:	Understand and defining the industry, industry life cycle, impact of technology, product launch, pricing, organizational behavior, market variables.
CO3	:	To acquire knowledge on different department in a garment unit.
CO4	:	Understand the types of designs and layouts.
CO5	:	Gain knowledge about the documentations in the garment unit.

UNIT-I

Entrepreneurship- Meaning definition and types, need for Entrepreneurs, qualities and types of Entrepreneurship.Difference between Entrepreneur and manager. Management-Definition Management as a process –Planning, organizing, Directing Controlling, Co-ordination.

UNIT-II

Institutions supporting entrepreneurs- DIC, NSIC ,SISI,SIPCOT, TII,KVIC, CODISSIA, COMMERICAL BANKS –SBI.Organizational structure of a garment unit –Hierarchical organization, production planning and control.

UNIT-III

Different department in a garment unit – Design department, Finance department, purchasing department, Production department, Organizing different sections – hierarchy Personnel involved in all the departments, nature of the job.

UNIT-IV

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

UNIT-V

Performance of Indian Garment Export, SWOT Analysis Setting up of garment unit for export market, Export Document, Export finance- Payment method, Export shipping Role of merchandiser in a garment unit

REFERENCE;

1. Principles of management- Dinakarpagare, sultan chand and sons, delhi.
2. Entrepreneurship Development in India – Dr. C.B Gupta, Dr N.P. Srinivasan, sultan Chand and sons delhi 1997.
3. Garment Exports – Darlie O Koshy (1997)
4. Introduction to clothing production management – AJ Chester 2nd Edition, Wrenbury Associates Ltd (1998).
5. The technology of clothing manufacture – Harold Carr and Barbara Latham, Blackwell Science (1994).

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H		H	H	H	H	L	L	L	L	H	H
CO2	L	L	L		H	H	H	H	H	L	L	L
CO3	H	H	L	L		L	L	L	H	H	H	H
CO4	L	L	H	H		H	H	L	H	L	H	L
CO5	H	H	L	L	L		L	H	H	L	H	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDE03	DSE – Internship Report In Weaving Unit	4	Practical			

Introduction:

The internship experience is designed to provide students working towards certificates and Associate in apparel industries with an opportunity to develop Insight into the practical application of academic knowledge.

Course Outcome :

CO1	:	To demonstrate readiness to enter the fashion industry.
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CO2	:	To Analyze impact of geography, technology, political systems, religion and economic forces in textile and apparel design and production.
CO3	:	To Assess the influence of state, federal, and international regulations on the development, production and distribution of apparel and textile products.
CO4	:	To Identify employment opportunities and the qualifications of fashion industry careers.
CO5	:	To Compare and contrast the interrelationships of physique apparel production on fabric, style, price point, target market and art element and principles.

**Internship with any garment based industry or company for a minimum period of 15 days.
A report to be submitted for evaluation**

Documentation should contain the following interview schedule

- Introduction
- Aim
- Objectives
- Hypothesis
- Procedure
- Design
- Pictures
- Questionnaire for survey / information collection.
- Results and discussion
- Summary and conclusion
- Bibliography

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	H	H	L	H	L	H	H	L	H	H	L
CO2	H	H	H	L	H	L	H	H	L	L	H	L
CO3	L	H	H	L		H	L	H	L	L	L	L
CO4	L	H	L	L	L	H	H	L		H	L	H
CO5	L	H	H	L		L	L	L	L	L	L	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDE04	DSE – Technical Textiles	44 Theory				

Introduction:

To impart knowledge on technical fabric manufacture and fabric characteristics.

Course Outcome :

CO1	:	To develop an understanding of fiber in technical textile.
CO2	:	To become familiar with various usage of technical textile.
CO3	:	Understand bonding methods in fabrics.

CO4	:	Student will be understand the usage of technical textile in various field.
CO5	:	Student will implement the application of fibers in the field of technical textile.

UNIT – I

Introduction, definition and scope of technical textiles, developments in fibers-natural fibres, polyamide, polyester, viscose rayon, polyolefin, high performance fibers and glass and ceramics, Classification and Application of technical textiles.

UNIT – II

Mobile Tech – definition and areas of application (road vehicles, aircraft, marine). Visible components - upholstery, seat belt, airbags and carpets; concealed components – tyre cords, hoses, belts, air bags, air and fuel filters, noise and vibration dampening and body panel reinforcement.

Sport Tech – definition and scope, properties of sports tech textiles, Areas of application, Moisture management. Special fibers used.

UNIT – III

Agro Tech – definition and scope, General Property Requirement of Agrotexiles, Fibers used for Agro-Textiles, Areas of application.

Pack Tech – definition and scope, types of products - Polyolefin Woven Sacks, FIBC, Leno bags, Wrapping fabric, Jute sacks, Tea-bags, Soft luggage products.

UNIT – IV

Geo Tech – definition and scope, Fibers used and its properties, Areas of application

Med Tech-fibres used-commodity and specialityfibres: non implantable materials-wound care and bandages, extracorporeal devices: implantable materials-sutures, soft tissue implants, orthopaedic implants, cardiovascular implants and healthcare and hygiene products.

UNIT – V

Smart textiles-components, classification-active smart, passive smart and very smart textiles and intelligent textiles-phase change materials, shape memory polymers, chromic and conductive materials and its applications. Clothing for extreme climatic conditions - wearable technology for snow clothing, high altitude clothing. Electromagnetic radiation protective clothing. Textiles-for survival-short term survival and long term survival.

REFERENCES :

1.Hand book of Technical textiles - A R Horrocks and S C Anand, Wood head publishing ltd,

England 2000

<https://www.textile Learner blogspot.con>

<https://www.textilemates.com>

<https://www.technical-textiles.net>

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	H	H	L	L	L	H	L	L	L	L	
CO2	L	H	H	L	L	L	H	L	L	L	L	L
CO3	H	H	H				H					L
CO4	H	H	H			H	H		L			
CO5	H	H	H	L	L	H	H		L			L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDE05	DSE – Internship Report In Knitting Unit	4	Practical			

Introduction:

The internship experience is designed to provide students working towards certificates and Associate in apparel industries with an opportunity to develop Insight into the practical application of academic knowledge.

Course Outcome :

CO1	:	To demonstrate readiness to enter the fashion industry.
CO2	:	To Analyze impact of geography, technology, political systems, religion and economic forces in textile and apparel design and production.
CO3	:	To Assess the influence of state, federal, and international regulations on the

		development, production and distribution of apparel and textile products.
CO4	:	To Identify employment opportunities and the qualifications of fashion industry careers.
CO5	:	To Compare and contrast the interrelationships of physique apparel production on fabric, style, price point, target market and art element and principles.

**Internship with any garment based industry or company for a minimum period of 15 days.
A report to be submitted for evaluation**

Documentation should contain the following interview schedule

- Introduction
- Aim
- Objectives
- Hypothesis
- Procedure
- Design
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- Questionnaire for survey / information collection.
- Results and discussion
- Summary and conclusion
- Bibliography

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	H	H	L	H	L	H	H	L	H	H	L
CO2	H	H	H	L	H	L	H	H	L	L	H	L
CO3	L	H	H	L		H	L	H	L	L	L	L
CO4	L	H	L	L	L	H	H	L		H	L	H
CO5	L	H	H	L		L	L	L	L	L	L	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDE06	DSE – Textile Finishing	4	4			Theory

Introduction:

To understand the different types of finishes, types of dyes and decoration of textiles by adding colour through dyeing. To understand the importance of quality, inspection, textile testing, and standards.

Course Outcome :

CO1	:	To acquire knowledge about the colours and prints in fashion industry.
CO2	:	To understand the purpose of the finishes and quality of the product.
CO3	:	Develop the knowledge in types of finishes.

CO4	:	To acquire knowledge on methods and applications on finishes.
CO5	:	To know about the processing methods in finishing.

UNIT- I

Production sequence of textile fabrics – flow chart – brief description. Finishes – classification – Importance of finishes – application methods.

UNIT- II

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.

UNIT- III

Functional finishes – methods and applications – wrinkle free finishes, water repellant finish, flame retardant finish, rot and mildew proof finish, antistatic finish, and soil release finish.

UNIT- IV 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.

UNIT- V

Recent trends in finishing – micro encapsulation techniques, nano finishes. Environmental pollution during chemical processing of textiles. Treatment of textile effluents.

References:

1. Functional Finishes by Lewin And Sello.
2. Technology of Finishing by J.T. Marsh.
3. Textiles by Sara.J. Kadolph and Anna .L. Langford, 2000.
4. Textile Finishing by R.S. Prayag.

Mapping Of Course Outcomes With Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H	H	L	L	L	L	L	H	H	H
CO2	L	L	H		L		H	L	H	H	L	L
CO3	H	H	H	H	H	L	L	L		H	L	L

CO4	L	H	H	L	H	H	L	H	L	L	L	L
CO5	L	H	L	L	L	H	H	L	H	H	L	H

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDE07	DSE – Project 4	Practical				
	Viva-voice					

Introduction:

The project experience is designed to provide students working towards apparel industries with an opportunity to develop Insight into the practical application of academic knowledge.

Course Outcome :

CO1	:	To demonstrate readiness to enter the fashion industry.
CO2	:	To Analyze impact of geography, technology, political systems, religion and economic forces in textile and apparel design and production.
CO3	:	To Assess the influence of state, federal, and international regulations on the development, production and distribution of apparel and textile products.

CO4	:	To Identify employment opportunities and the qualifications of fashion industry careers.
CO5	:	To Compare and contrast the interrelationships of physique apparel production on fabric, style, price point, target market and art element and principles.

A report to be submitted for evaluation.

Documentation should contain the following interview schedule

- Introduction
- Aim
- Objectives
- Hypothesis
- Procedure
- Design
- Pictures
- Questionnaire for survey / information collection.
- Results and discussion
- Summary and conclusion
- Bibliography

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	L	H	H	L	H	L	H	H	L	H	H	L
CO2	H	H	H	L	H	L	H	H	L	L	H	L
CO3	L	H	H	L		H	L	H	L	L	L	L
CO4	L	H	L	L	L	H	H	L		H	L	H
CO5	L	H	H	L		L	L	L	L	L	L	L

Semester :

Subject Code	Subject Title	Credit	Lecture	Tutorial	Practical	Type
19BCDE08	DSE – Botique44 Management	Theory				

Introduction:

To know about the management of boutique and to run a business.

Course Outcome :

CO1	:	To acquire knowledge on creating a business plan.
CO2	:	Develop skills to run a business and sourcing of raw materials.
CO3	:	To acquire knowledge on buyer customer relationship.
CO4	:	Develop skills to run a boutique.

CO5	:	Develop skills in research and development of boutique.
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Unit-I

How to start a boutique, creating a business plan, finding a ideal location, financial planning.

Unit-II

Government norms to run a boutique, interior designing, sourcing of raw materials, and inventory planning.

Unit-III

Buyer supplier relationships, consumer relationship, tips and tricks to attract customers.

Unit-IV

Essential technology to run a boutique and labour management and warehouse.

Unit-V

Quality control, research and development and analysis, marketing and promotion ,maintenance of boutique.

REFERENCE;

1. Opening a boutique store: how to start your own boutique, Briana Stewart Bull City Publishing, 2014.
2. Fabjob guide to become a boutique owner, Tag Goulet, DebbraMikaelsen, Catherine Goulet, Fabjobincorporated,2011.
3. Fashion unraveled: How to start ,run and manage an independent Fashion Label,Jennifer Lynne Mathews, 2009.

Mapping of Course Outcomes with Program Outcomes:

Course Outcomes	Program Outcomes											
	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
CO1	H	H	H			H	L	L	L	L	L	
CO2	H	H	H			H	H	L	L	L	L	
CO3	H	H	L			H	H	L	L	H	H	
CO4	H	H	L			H	H	H	H	H	H	
CO5	H	H	L			H	L	H	H	H	H	

