



PERIYAR UNIVERSITY

PERIYAR PALKALAI NAGAR SALEM – 636011

DEGREE OF BACHELOR OF SCIENCE
CHOICE BASED CREDIT SYSTEM



Syllabus for

B.SC. COSTUME DESIGN AND FASHION

(SEMESTER PATTERN)

(For Candidates admitted in the Colleges affiliated to Periyar

University from 2021 - 2024 onwards

REGULATION**I. ELIGIBILITY**

Candidates seeking admission to the first year degree of Bachelor of Science in Textiles and Fashion Designing shall be required to have passed in any Higher Secondary Course examination (Regular academic or Vocational) of the state board/CBSE/ICSE or other examination accepted as equivalent thereto by the syndicate, subject to such other conditions as may be prescribed. Pass in any three year Diploma in Fashion/Costume/Textile/Apparel related course is eligible to admit in direct second year of this UG course.

II. DURATION

The course for the degree of Bachelor Of Science Costume Design and Fashion shall extend over a period of three academic years - 6 Semesters and each semester normally consisting of 90 working days or 450 Hours.

III. ELIGIBILITY FOR THE DEGREE

A candidate shall be eligible for the degree of Bachelor Of Science Costume Design and Fashion, if he/she has satisfactorily undergone the prescribed courses of the study for a period not less than 6 semesters in an institution approved by the university has passed the prescribed examinations in all the 6 Semesters.

IV. SUBJECT OF STUDY

The subjects of the study for the B.Sc., Costume Design and Fashion and the syllabus for the subjects are given in the annexure.

V. REQUIREMENT OF EXAMINATION

The theory examinations will be conducted for 3 Hours by the university in the subjects prescribed for all the semesters in the month of November & April every year. The practical examinations will be conducted for 3 Hours with respect to allied and core practical in all the subjects prescribed in every semester.

VI. SCHEME OF THE EXAMINATION

The scheme of examinations for the course is given in Annexure. All the practical examinations / Project work shall be conducted & evaluated internally by the institution themselves with internal and external examiners appointed by the university.

B.Sc COSTUME DESIGN AND FASHION

SEM	PART	PAPER CODE	COURSECODE	COURSE	HRS		CREDIT	MARKS		
					L	T/P		CIA	EA	TOTAL
I	I		Language	Tamil - I	2	4	3	25	75	100
	II		Language	English - I	2	4	3	25	75	100
	III		Core I	Principles of PatternMaking	5	-	5	25	75	100
			Core Practical I	Basic Garment Designing Practical	-	5	3	40	60	100
	IV		Value Education	Yoga	2	-	2	25	75	100
			Add-on course	Professional English	4	2	4	25	75	100
						30	20			600
II	I		Language	Tamil - II	2	4	3	25	75	100
	II		Language	English - II	2	2	3	25	75	100
	III		Allied-I	Sewing Technology	4	-	4	25	75	100
			Core Practical II	Fabric Design AnalysisPractical	1	3	2	40	60	100
			Allied Practical I	Basic IllustrationPractical	1	3	3	40	60	100
	II	NMSDC	Naan Mudhalvan Skill Course-	Language Proficiency for Employability	2	-	2	25	75	100
	IV		EVS	Environmental Studies	2	-	2	25	75	100
		Add-on course	Professional English	4	-	4	25	75	100	
						30	23			800
	I		Language	Tami-III	2	4	3	25	75	100
III	III		Core II	Textile Science	4	-	4	25	75	100
			Core III	Fabric Science	3	-	3	25	75	100
			Core Practical III	Textile Science Practical	-	3	2	40	60	100
			Allied II	Fashion Designing	4	-	4	25	75	100
			Allied PracticalII	Fashion DesigningPractical	-	3	2	40	60	100
	IV		NMEC -I	Basic Textiles	2	-	2	25	75	100
			SBEC - I	Children's ApparelPractical	-	3	2	40	60	100
	IV		NMSDC	Digital Skills for Employability - Microsoft Office Essentials	2	-	2	25	75	100
						30	24			800

B.Sc COSTUME DESIGN AND FASHION

SEM	PAR	PAPER CODE	COURSE CODE	COURSE	HRS		CREDIT	MARKS		
IV	I		Language	Tamil IV	2	4	3	25	75	100
	III		Core IV	Care and Maintenance of Textiles	3	-	3	25	75	100
			Core V	Historic Costumes & Textiles of India	3	-	3	25	75	100
			Allied III	Textile Wet Processing	4	-	4	25	75	100
	IV		Core Practical IV	Women's Apparel Practical	1	3	3	40	60	100
			Allied Practical IV	Textile Wet Processing Practical	-	3	2	40	60	100
			Naan Mudhalvan – Skill Course	Employability Skills-Microsoft	2	-	2	25	75	100
	IV		SBEC - II	Surface Embellishment Practical	-	3	2	40	60	100
			NMEC - II	Fundamentals of Designing	2	-	2	25	75	100
					30	24			900	
15 Days Internship to any Textile Processing / Garment Industry (Viva voce for the Internship training in V Semester)										
V	III		Core VII	Computers in Garment Industry	4	-	4	25	75	100
			Core VIII	Textile Finishing	4	-	4	25	75	100
			Core IX	Printing Technology	5	-	5	25	75	100
			Core Practical VI	Computer Aided Designing Practical		3	2	40	60	100
			Internship	Internship- Viva voce	-	-	-	-	-	-
			Core Practical VII	Printing Technology Practical		3	2	40	60	100
	IV		SBEC- III	Men's Apparel Practical	1	3	3	40	60	100
	III		MBEC - I	Garment Quality & Cost Control	5	-	5	25	75	100
	IV		NMSDC	Marketing and Design Tools (Other Arts)-Digital Marketing	2	-	2	25	75	100
					30	27			700	
VI	III		Core X	Fashion Merchandising	5	-	5	25	75	100
			Core Practical VIII	Fashion Accessories and Ornaments Practical	2	3	4	40	60	100
			Core Practical IX	Fashion Draping Practical	2	3	3	40	60	100
			MBEC - II	Boutique Management	5	-	5	25	75	100
			Core Practical X	Portfolio Presentation Viva Voice	-	5	3	20	80	100
			Naan Mudhalvan – Skill Course	Employability Skills	2	-	-	2	-	-
	IV		SEBC - IV	Beauty Care Practical	1	4	3	40	60	100
		Extension Activities	Extension Activities	-	-	1	-	-	-	
					30	24			600	
					180	142			4400	

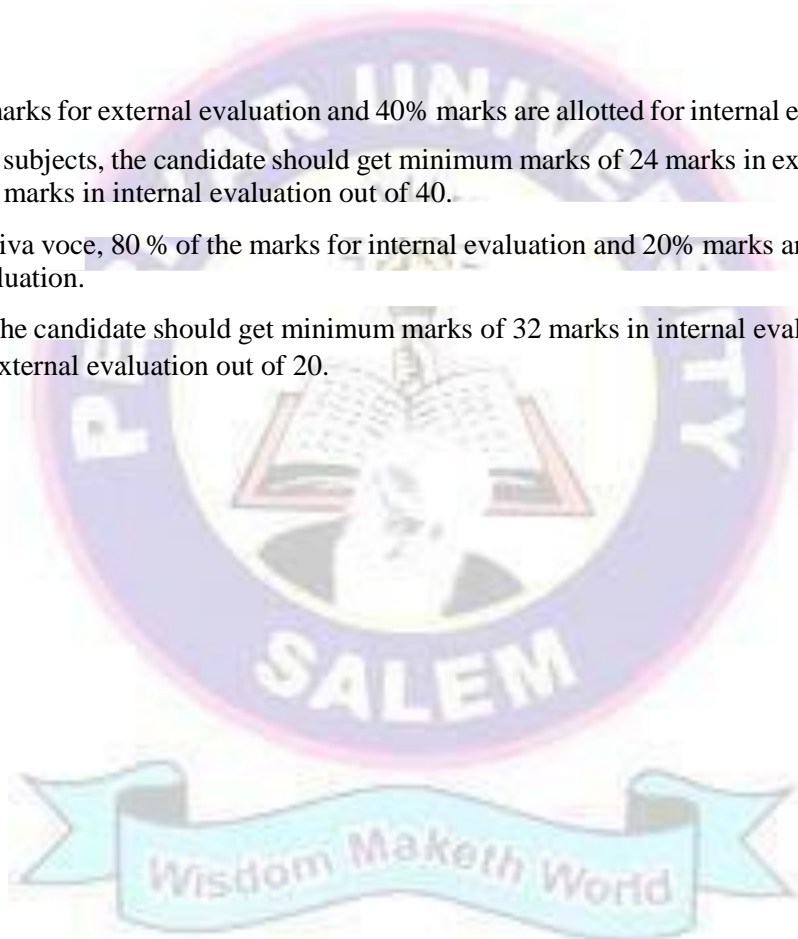
**SBEC- Skill Based Elective
Courses NMEC – Non-Major
Elective Courses MBEC –
Major Based Elective Courses**

I. PASSING RULES Theory

- 75% of the marks for external evaluation and 25% marks are allotted for internal evaluation.
- Candidate is demand to have passed to a subject, if he/she get a minimum of 40% of total marks in theory subjects with internal mark of 10 marks and external marks of 30 marks.

Practical

- 60% of the marks for external evaluation and 40% marks are allotted for internal evaluation.
- For practical subjects, the candidate should get minimum marks of 24 marks in external evaluation out of 60 and 16 marks in internal evaluation out of 40.
- For project viva voce, 80 % of the marks for internal evaluation and 20% marks are allotted for External evaluation.
- For project, the candidate should get minimum marks of 32 marks in internal evaluation out of 80 and 8 marks in External evaluation out of 20.



QUESTION PAPER PATTERN

a. THEORY

Time : 3 Hours

Total Marks: 75 Marks

QUESTION PAPER PATTERN

Unit	Section-A	Section-B	Section-C
I	Q. 1,2,3	Q. 16	Q. 21a,21b
II	Q. 4,5,6	Q. 17	Q. 22a,22b
III	Q. 7,8,9	Q. 18	Q. 23a,23b
IV	Q. 10,11,12	Q. 19	Q. 24a,24b
V	Q. 13,14,15	Q. 20	Q. 25a,25b

SECTION A (15 X1 = 15)**ANSWER ALL THE QUESTIONS****SECTION B (5 X2 = 10)****ANSWER ANY TWO QUESTIONS****SECTION C (5X10 = 50)****EITHER OR CHOICE ANSWER ALL THE QUESTIONS****INTERNAL ASSESSMENT****MARKS**

TEST :	15
ASSIGNMENT :	5
ATTENDANCE :	5

TOTAL	25 MARKS
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PASSING MINIMUM (IA) 40% - 10 MARKS

PASSING MINIMUM (UE) 40% - 30 MARKS

PASSING MINIMUM TOTAL - **40 MARKS****PRACTICAL :****Time: 3 Hours****Total Marks : 60Marks**

SECTION A (1X20= 20)	Either or Choice	ANSWER ANYONE
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SECTION B (1 X40= 40)	Either or Choice	ANSWER ANYONE
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INTERNAL MARKS:

RECORD :	25
SAMPLE :	10
ATTENDANCE :	05

TOTAL :	40 MARKS
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PASSING MINIMUM (IA) 40% - 16 MARKS

PASSING MINIMUM (UE) 60% - 24 MARKS

PASSING MINIMUM TOTAL - 40 MARKS

Program Specific Outcome (PSOs)

PEO1	Train the students with a strong ability for original thinking and to forecast evolving trends and dynamic in the fashion industry
PEO2	To inculcate the students with the fundamental principles of fashion design and able to format and deliver products from conception to final delivery of tangible garments.
PEO3	Help the students gain the technical skills to analyze and execute on any number of designs.
PEO4	Enables to develop intellectual imagination into reality and turn the designs into innovative ideas and collection for consumers.
PEO5	Take into account the evolving fashion trends and norms and cultural dynamic and innovations in the Indian as well as international industry

Program Outcome (POs)

Our successful completion of the **B.sc Costume Design and Fashion** program, students are expected to

PEO1	Become design innovators by learning to balance conventional design approaches with new, emergent thinking.
PEO2	Join managerial position such as Fashion Analysts, Fashion stylist.
PEO3	Can act as a Production Executives and Merchandisers in apparel industry.
PEO4	Get into top Fashion Brands and companies and make a mark in the industry by Fashion coordinator and Fashion Designer.
PEO5	Become an Entrepreneur by having their own Boutique or releasing their own brands.

**B.Sc COSTUME DESIGN & FASHION
SEMESTER – I
CORE – I PRINCIPLES OF PATTERN MAKING**

COURSE OBJECTIVES:

- To impart skills in basic techniques of pattern making
- To provide the knowledge of drafting principles to develop the patterns for various garments.

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	To understand the pattern construction of ladies, boys & men's measurements	K2
CLO2	This study makes students understand the skills of drafting ideas.	K2
CLO3	Pattern making to get the required style, shape and fit.	K3
CLO4	Apply grading techniques and alteration of patterns	K3
CLO5	The students now learn to evaluate the layout and different design	K3

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Importance of taking measurements & procedure for cutting	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.
2	Pattern making includes skills in pattern adaptation and pattern drafting	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.
3	Manipulation darts and right fit	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.
4	Grading and pattern alteration	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
5	Planning of layout	Pattern, 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.

REFERENCES

COMPULSORY

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)

B. Sc. COSTUME DESIGN & FASHION
SEMESTER – I
CORE PRACTICAL- I - BASIC GARMENT DESIGNING PRACTICAL

COURSE OBJECTIVES:

- To familiarize students with clothing construction with fundamental apparel design categories
- To introduce the concept of garment making.
- To acquire knowledge and understand about fundamentals of sewing.
- To gain the knowledge about the Basic garment Techniques.
- To identify the components in garment construction.

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	To Gain Knowledge in Seams and seam Finishes.	K2
CLO2	Demonstrate the elements for Garment Decoration such as Fullness	K3
CLO3	Explain about the Fundamental components of Garment construction	K2
CLO4	To learn about the sleeves and collars.	K2
CLO5	Construct various forms of Plackets and Pockets	K3

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Experiments
1	Classify about Seams and seam finishes	Preparation of Samples for Seams and Seam Finishes.
2	Hems	Preparation of Samples for Hems
3	Demonstrate the elements for garment decoration	Preparation of Samples for Fullness.(Darts, Tucks, Pleats, Gathers, Flares, Ruffles, Godets and Gathers)
4	Demonstration of Facing and binding	Preparation of Samples for Facing and binding.(Any3)
5	Construct various Plackets and fasteners	Preparation of Samples for Plackets and fasteners.(Any 4)
6	Explain about the different types of sleeves	Preparation of Samples for different Sleeves.(Any 3)
7	Explain about the different types of collars	Preparation of Samples for different Collars.(Any 3)
8	Explain about the different types of Yokes	Preparation of Samples for different Yokes.(Any 3)
9	Classify about pockets	Preparation of Samples for different pockets(Any 3)

Text Book(s)
Gayatri Vermaand Kapil Dev,(2006). <i>Cutting and Tailoring Course</i> . New Delhi: Asian Publishers
KR Zarapker, (2005). <i>Zarapker System of Cutting</i> .New Delhi: Navneet Publications Ltd.
Thangam Subramaniam,(2006). Dress Making- Bombay Tailoring and Embroidery College
Ruth Sleigh Johnson,(2011).Practical sewing techniques. London :A&C Black publishers
Related Websites
https://ecourseonline.iasri.res.in/mod/page/view.php?id=114171
https://www.fibertofashion.com/industry-article/5658/basic-of-pattern-making
https://www.clothingpatterns101.com/style-lines.html

B. Sc. COSTUME DESIGN & FASHION
SEMESTER – II
ALLIED – I SEWING TECHNOLOGY

COURSE OBJECTIVES:

- To introduce students to the sewing machine
- To impart skills in basic techniques of parts and functions in sewing machine
- To gain the knowledge of different machines used for sewing

COURSE LEARNIN OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Introducing about Sewing mechanism, Machineries and material handling.	K2
CLO2	Understanding the features of sewing needles and fabric handling	K3
CLO3	Develop proficiency in the use of the sewing machine	K2
CLO4	Discuss about Components and trims	K2
CLO5	Understanding the Fusing and various methods of fusing	K3

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Introduction to sewing machine & various types of fabric.	Introduction to sewing, History of sewing machines, Sewing Machine – parts and functions of single needle machine, Tools for measuring, marking, cutting & pressing. Selection of thread and needle for various types of fabric.
2	Stitching mechanism	Stitching mechanism – needles, bobbin and bobbin case, bobbin winding, upper and cover threading, auxiliary hooks, throat plates, take –ups tension disc. Feeding mechanism – drop feed, different fed, needle feed, compound feed, puller feed. Sewing machines attachments – (Hemmers, Ruffler, Binder, Tucker, cloth guide, zipper foot, gathering foot, feed cover plate, circular attachment). Common problem & remedies
3	Classification of sewing machine	Classification of sewing machines -Single Needle Lock stitch Industrial model, Over Lock Machine, Zig Zag Multi-Purpose Machine, Double Needle Machine, Bar Tack Machine, button hole making machine, button fixing machine, blind stitching machine, fabric examining machine. Machine attachments - care and maintenance of sewing machines.

4	Components and Trims	Basic sewing machines and associated work aids simple Automobiles. The use of components & trims – Labels and motifs, lining, Interlining, wadding, lace, braids & elastics, Hooks and loop fastening, Seam binding and tape, Shoulder pad, Eyelets & laces, Zip fastener, Buttons, Tack buttons, Snap fasteners and Rivets, Performance properties of components and trims.
5	Fusing and methods of fusing	Fusing – Definition, advantages of using fusible interlinings, requirement of fusing, Fusing process. The means of fusing, Fusing Equipments, Methods of fusing quality control in fusing. Alternative of fusible interlining. Pressing: the purpose of pressing, categories of pressing, means of pressing, pressing Equipments and methods, pleating, permanent press. State of pressing.

REFERENCES	
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COMPULSORY	
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1	The Technology of Clothing manufacture, Harold Carrabd Barbara Catham, Blackwell Science (1994)
2	Goswami, B.C. “Textile Yarns”, Technology, Structure and applications”, Mc graw Hill.
3.	Chris Jefferys (2004), 101 Essential Tip- Basic Sewing, D.K. Publishing
4.	BestyHosegood (2006), The complete book of sewing, Dorling Kindersley Ltd., London.
5.	Thomas Anna Jacob, “The art of sewing:”, USB publishers New Delhi, 1994.
6	Readers Digest Sewing book.

**COSTUME DESIGN AND FASHION
SEMESTER -II
CORE PRACTICAL – II - FABRIC DESIGN ANALYSIS PRACTICAL**

COURSE OBJECTIVES:

- To impart knowledge on find and sketch the weave structure of the fabric
- To help students identify the drafting and lifting plan.
- To understand the woven fabrics designs

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Remember and identify the constructional parameters of fabric.	K1
CLO2	Understand how to construct, designs, draft and peg-plan for weaving the fabric.	K2
CLO3	Understand woven structural analysis	K2
CLO4	Evaluate the fabric according to weaving	K5
CLO5	Analyze the design aspect in the weaving pattern	K4

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit Title	Chapter
Analysis of following fabrics for <ul style="list-style-type: none"> ➤ Design ➤ Draft ➤ Peg Plan ➤ Ends per inch ➤ Picks per inch ➤ Yarn count ➤ Yarn crimp ➤ Cover factor ➤ Weight per square yard of fabrics 	<ol style="list-style-type: none"> 1. Plain weave and its derivatives 2. Twill weaves – 2/1, 3/1. 3. Satin / Sateen 4. Honey comb 5. Huck – a – back 6. Crepe weaves 7. Extra Warp 8. Extra Weft 9. Fancy weave 10. Single Jersey knit 11. Interlock knit 12. Rib

REFERENCES

REFERENCES	
COMPULSORY	
1	Principles of weaving, R. Marks, A.T.C. Robinson, Publication by the textile institute Manchester (1976)
2	Fabric forming, B. Hasmukhroi, Publication by SSM ITT Cooperative stores Ltd, Komarapalayam (1996)
3.	Weaving mechanism Vol 1 & Vol 2, Prof. N.N. Banerjee, Published by Srimati. Tandra Banerjee, West Bengal (1999)
4.	Mechanism of Weaving machines, Prof. J.L. Chakravorty, Srimati B. Chakravorty, Serapur, Publication by West Bengal, 1984
5.	Handbook of Weaving, Sabit Adanur, Technomic publishing Company, Inc, USA (2001)

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1.	https://www.cottonworks.com/topics/sourcing-manufacturing/weaving/basic-woven-designs-introduction-to-woven-fabric/
2.	https://www.textileschool.com-453-wovendesign-
3.	https://www.intechopen.com/books/advances-in-modern-woven-fabric-technology/color-and-weave-relationship-in-woven-fabric

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER -II
ALLIED PRACTICAL – I- BASIC ILLUSTRATION PRACTICAL**

COURSE OBJECTIVES

- To learn the basic techniques of sketching.
- To know the drawing methods of fashion figures.
- To know the sketching methods of different garments and ornaments.

COURSE LEARNING OUTCOMES (CLOs)

By the End of the Course, Students will be able to

S. No	Outcomes	
CLO1	Illustrate the apparel design for elements of designs.	(k2)
CLO2	Sketch garment designs following the various elements of design	(k1)
CLO3	They will draw various Accessories and Ornaments	(k2)
CLO4	Find the human body in proportions relevant to basic illustration.	(k1)
CLO5	Illustrate human figures by different heads	(K2)

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
I	Prepare the sketches	Different types of collar, Sleeve, Neck line, skirts.
II		Different types of ladies tops, Shirt, Pant (Full and half), Chudidhar.
III		Different types of Accessories –bags, footwear, hats etc. Different types of Ornaments
IV		Facial features –Eyes ,nose , lips ears Face ,hands legs –Different positions
V		Lay figure -7 1/2head Fashion figure -8 , 10 ,12 head

REFERENCES**COMPULSORY**

1	Principles of weaving, R. Marks, A.T.C. Robinson, Publication by the textile institute Manchester (1976)
2	Fabric forming, B. Hasmukhroi, Publication by SSM ITT Cooperative stores Ltd, Komarapalayam (1996)
3.	Weaving mechanism Vol 1 & Vol 2, Prof. N.N. Banerjee, Published by Srimati. Tandra Banerjee, West Bengal (1999)
4.	Mechanism of Weaving machines, Prof. J.L. Chakravorty, Srimati B. Chakravorty, Serapur, Publication by West Bengal, 1984
5.	Handbook of Weaving, Sabit Adanur, Technomic publishing Company, Inc, USA (2001)

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER – III
CORE II – TEXTILE SCIENCE**

COURSE OBJECTIVE:

- To impart the knowledge of fibres, sources, their identification and properties
- To familiarize yarn spinning process
- To provide students with the knowledge of yarn science and their properties

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Identify the basic textile fibers	K1
CLO2	Understand the natural and manmade fiber	K2
CLO3	Techniques in yarn processing	K2
CLO4	Learn Yarn spinning process	K2
CLO5	Understand basics of yarn manufacturing	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Knowledge about fiber	Introduction to textile fibres – definition, classification of fibres Classification of fibres – Physical and Chemical properties of fibre and their end uses – Cotton, Wool, silk, Viscose, Rayon, Nylon, Polyester
2	Properties manufacturing of different fibers	Manufacturing process, physical and chemical properties and end uses of natural fibres – cotton, linen, wool & silk and jute. Man - made fibre - Polyester, viscose rayon, nylon, acrylic, spandex - Blends and mixtures manufacturing process.
3	Yarn converting process	Introduction to ginning – objectives – types & working principles of knife roller gin, blow room process – objectives of mixing and objects of blow room, working principles of axi - flow cleaner, kirschner beater, lap forming unit (scutcher)- cleaning efficiency.
4	Yarn spinning process	Spinning definition, Sequence of spinning process – Blending, Opening, cleaning, Doubling, Carding, Combing, Drawing, Roving, Spinning. Objectives and working principles of simplex and spinning (Ring Frame)
5	Types of yarn manufacturing	Yarn – definition, classification, simple, fancy yarn and sewing threads manufacturing process, yarn twist – classification of twist, yarn count. Identification of yarn count. Simple Yarn – Cable, Ply and double Fancy yarn – Slub, flake, Spiral, knot or spot yarn – Count and twist – Optimum twist

REFERENCES**COMPULSORY**

1	Corbman B.P Fibre to Fabric, International Students Edition Mc Graw Hill Book Co- Singapore
2	J.L. Smith, Textile processing, Abhishek Publications, Chandigarh, 2003.
3	Gokarneshan U, Fabric Structure and Design, New Age International Publishers 2004.
4	Kate Wells, Fabric Dyeing and Printing, Conran Octopus 2000.

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER – III
CORE III – FABRIC SCIENCE**

COURSE OBJECTIVES:

- To impart knowledge on the weaving process involved to produce woven fabrics
- To help students understand fabric formation process
- To familiarize the basics of different types of knitting and properties of knitted fabrics

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Understand the feature of different weaves	K1
CLO2	Explain designs, draft and peg plan for the types of weave	K2
CLO3	Explain designs, draft and peg plan for the types of weave	K2
CLO4	Explain the methods of fabric formation of Knitting	K2
CLO5	Explain the care and maintenance of knitted material	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Weaving process	Introduction to weaving - Brief study on sequence of weaving preparatory process. Looms classification of looms, basic loom mechanism, primary secondary and auxiliary. Warp Winding – objectives – Warping sizing. Weft winding – objectives – Pirn winding machine
2	Design, draft and peg plan for various weaves	Elements of woven design – Design, draft and peg plan. Types of drafting. Weaving– Classification and characteristic features of woven structure. Plain, Twill, satin & sateen.
3	Design, draft and peg plan for various weaves	Honey comb, Huck-a- back, mock leno. Extra Warp, extra weft, double cloth, crepe pile fabrics, characteristic features and end uses.
4	Types Of Knitting And Its Characteristics	Knitting – Definition, history and Classification. Types of knitting hand and machine. Characteristics of knitted goods. General terms and principles of knitting. Knitted loop structure, circular knitting machine, parts & function.
5	Cam System , Care And Maintenance Of Knitted Material	Weft knitting – Single Jersey, Purl Interlock Knit. Warp Knitting – Tricot, Raschel, Simple, CAM system to develop a knit design. Care & maintenance of knitted material. Identification of knitted fabric defects

REFERENCES**COMPULSORY**

1	Gokerneshan. N (2009 weaving preparation Technology, Abishek Publication, Chandigarh
2	Murphy.W.S (2001) Handbook of weaving. Abhishek Publications, Chandigarh
3.	Fabric Science 5th Edition, Joseph J Pretal, Fairchild Publication. New York 1990.
4.	David Speneer, “ Knitting Technology”, Pergamen Press, Oxford 1982
5.	DB.Ajgonkar, “Principles of Knitting”, Universal Publishing Corporation, 1998. “Warp Knit Machine Elements”, Wilkens 1997.

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER – III
CORE III – TEXTILE SCIENCE PRACTICAL**

COURSE OBJECTIVES:

- To help students to understand the testing of fibers and yarn
- To provide students with the knowledge on testing

COURSE LEARNING OUTCOMES (CLOs)

By the End of the Course, Students will be able to

S. No	Outcomes	
CLO1	Identify the basic textile fiber	K1
CLO2	Understand and Classify the fibers and its types	K2
CLO3	Compare to the natural and manmade fibers.	K2
CLO4	Evaluate the methods of yarn manufacturing	K6
CLO5	Analyze the structural investigations techniques of yarn	K4

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
I II	<p><u>Fibre Testing :</u></p> <p>a. Identification of textile fibres by</p> <p>Natural fibers</p> <p>1. Cotton 2. Silk 3. Wool</p> <p>Manmade fibers</p> <p>1. Polyester 2. Viscose 3. Nylon</p> <p><u>Yarn Testing:</u></p> <p>b. Determination of</p> <p>1. Yarn count 2. Yarn Twist 3. Lea Strength</p> <p>4. CSP calculation</p>	<p>A. Microscopical Test</p> <p>B. Solubility Test</p> <p>C. Burning Test</p>

REFERENCES**COMPULSORY**

1	Corbman B.P Fibre to Fabric, International Students Edition Mc Graw Hill Book Co-Singapore, 2000
2	J.L. Smith, Textile processing, Abhishek Publications, Chandigarh, 2003.
3.	Gokarneshan U, Fabric Structure and Design, New Age International Publishers 2004.
4.	Kate Wells, Fabric Dyeing and Printing, Conran Octopus 2000.

B. Sc. COSTUME DESIGN & FASHION
SEMESTER – III
ALLIED – II FASHION DESIGNING

COURSE OBJECTIVES:

- To introduce the students to various aspects of design
- To introduce students to elements and principles of design
- To impart knowledge on fashion art and its importance

COURSE LEARN IN OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Understand the design types, elements and principles of design	K2
CLO2	Appraise the colour combinations with standard colour harmonies	K5
CLO3	Interpret the fashion cycles, consumer groups and fashion theories	K3
CLO4	Classify the design dress for unusual figures.	K2
CLO5	Explain to plan wardrobe design dress for different age group and occasion	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Design Elements and Principles	Design- definition and types – structural and decorative design, requirements of a good structural and decorative design. Elements of design – line, shape or form, colour, size and texture. Application of structural and decorative design in a dress, selection and application of trimmings and decorations. Principles of design- balance – formal and informal, rhythm- through repetition, radiation and gradation, emphasis, harmony and proportion. Application of principles of design in a dress.
2	Standard Colour Harmonies	Colour- definition, colour theories- prang colour chart and munsell colour system, Dimensions of colour- hue, value, and intensity. Standard colour harmonies- application in dress design. Colour in principles of design- application of the same in dress design.
3	Designing Dresses for Unusual Figures	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.
4	Fashion Evolution and Fashion Forecasting	Terms related to the fashion industry – fashion, style, fad, classic, and collection, chic, Custom made , mannequin , fashion show, trend, forecasting, high fashion, fashion cycle, haute couture, fashion director, fashion editor, line, knock-off avant garde, bridge, buying house, apparel, fashion merchandising, pret – a – porter.

5	Factors influencing Wardrobe Selection	Wardrobe planning for different age groups, factors influencing wardrobe selection, fashion and season, designing dress for different occasions business meetings, parties/ dinners, evenings/leisure hours, marriage functions, sports, uniforms for civil service, airhostess, hoteliers, schools – girls and boys.
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COMPULSORY	
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1	Fashion Sketch Book – Bina Abling, Fair Child Publications, New York Wardrobe,1988.
2	Art and Fashion in Clothing Selection – Mc Jimsey and Harriet, Iowa State University Press,Jowa,1973.
3	Fashion from Concept To Consumer – Frings Gini Stephens, Pearson Education, US, 1998.
4	Inside the Fashion Business – Kitty G. Dickerson, Pearson Education,US, 2007.

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**B. Sc. COSTUME DESIGN & FASHION
SEMESTER – III
ALLIED PRACTICAL - II FASHION DESIGNING PRACTICAL**

COURSE OBJECTIVES:

- Familiarize with the elements and principles of design
- Play with colours following the standard colour harmonies
- Create garment design for various seasons on fashion figures

COURSE LEARNIN OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Develop Prang colour chart, value and intensity chart	K6
CLO2	To develop skills of visualization and communication using design principles	K4
CLO3	Sketch garment designs following the various Principles of design	K3
CLO4	Apply the Colour harmony in dress design	K3
CLO5	Analyze design concepts to figure irregularities	K4

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	<p>Prepare the following Charts</p> <p>Illustrate garment designs for the Elements of Design</p>	<ul style="list-style-type: none"> • Prang colour chart • Value Chart • Intensity Chart • Line • Colour • Texture • Shape or form • Size
2	Illustrate garment designs for the Principles of Design	<ul style="list-style-type: none"> • Balance in dress • Harmony in dress • Emphasis in dress • Proportion in dress • Rhythm in dress
3	Illustrate the colour harmony in dress design	<ul style="list-style-type: none"> • Monochromatic colour harmony • Analogous colour harmony • Complimentary colour harmony • Double complementary colour harmony • Split complementary colour harmony • Triad colour harmony

4	Application of colour and principles of design in dress	<ul style="list-style-type: none"> • Harmony through colour • Emphasis through colour • Proportion through colour • Rhythm through colour • Balance through colour
5	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.

REFERENCES

COMPULSORY	
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1	Fashion Sketch Book, Bina Abling, Fair Child Publications, New York Wardrobe, 1988.
2	Illustrating Fashion, Kathryn McKelvey and Janine Munslow, Blackwell Science, 1997.
3	Art and Fashion in Clothing Selection, Mc Jimsey and Harriet, Iowa State University Press, Iowa, 1973.
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**B. Sc. COSTUME DESIGN & FASHION
SEMESTER –III
NMEC – I - BASIC TEXTILES**

COURSE OBJECTIVES:

- To impart knowledge on concept of fibers, yarn and fabrics
- To know different sources of get fibers
- To study different methods to get fabric from yarn

COURSE LEARNIN OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Gain Complete Knowledge about the fabric & yarn structure.	K2
CLO2	Remember the molecular conformations of many textile fibers.	K1
CLO3	Understand the new process of textile fibers and yarns.	K2
CLO4	Remember and identify the constructional parameters of fabric.	K1
CLO5	Understand how to construct, designs, draft and peg-plan for weaving the fabric.	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Classification of Fiber	Introduction to the field of Textiles – classification of fibres – natural and chemical – primary and secondary characteristics of textile fibres.
2	Properties of Fiber	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, and acrylic.
3	Spinning & Yarn Classification	Spinning – definition, classification – chemical and mechanical spinning – blending, opening, cleaning, doubling, carding, combing, drawing, roving, spinning- Yarn classification – definition classification – simple fancy yarns, sewing threads and its properties.
4	Types of weaves	Woven – basic weaves- plain twill, satin, fancy weaves – pile, double cloth, leno, swivel, tappet, dobby and jacquard, weaving technology- process sequence –machinery details.
5	Types of non wovens	Non- woven- felting, fusing, bonding, lamination, netting, braiding and calico, tating and crocheting

REFERENCES**COMPULSORY**

1	Fashion Sketch Book – Bina Abling, Fair Child Publications, New York Wardrobe,1988.
2	Fashion from Concept To Consumer – Frings Gini Stephens, Pearson Education, US, 1998.
3	Textiles – Fiber to Fabric, Corbmann B.P. International student's edition, McGraw Hill book Co, Singapore 1985.
4	Sewing and knitting – A Reader's Digest Step- by- step guide, Readers Digest, New York 1993.
5	Fabric Science 5th Edition, Joseph J pretal, Fairchild publication's New York 1990
6	Technology of dyeing and printing – V.A Shenai, Savakpaublication, Mumbai

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2	https://www.intechopen.com/books/advances-in-modern-woven-fabric-technology/color-and-weave-relationship-in-woven-fabric
3	https://textilelearner.blogspot.com/2013/01/faultsdefects-in-knitted-fabrics.html

B. Sc. COSTUME DESIGN & FASHION
SEMESTER –III
SBEC – I CHILDREN’S APPAREL PRACTICAL

COURSE OBJECTIVES:

- It aims to learn about styles suitable for children
- To be able to have a comprehensive knowledge about selection of fabrics
- Development of patterns for selected styles for children.
- Also to have a working knowledge of construction processes in garment assembly for children

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Learn specific requirements for children's wear designing.	K2
CLO2	Assess the suitability of fabric for children	K2
CLO3	Make a flat sketch of styles for children’s garments	K3
CLO4	Prepare patterns & construct the garments.	K4
CLO5	Place patterns on fabric, cut and sew the garments from a selected range	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit Title	Chapter
Design, Draft and construct the children's garments with given features	1. Bib – Give some variation in outline shape or surface design 2. Panty – Plain and variation in shapes. 3. Jabla – With sleeve and opening 4. Knickers - with elastic opening 5. Baba suit /Romper – knickers with chest piece attached 6. A line frock– double pointed dart, facings at neckline and armhole and strap attach in hip. 7. Summer frock – without sleeve and collars, suspenders tied at shoulder 8. Yoke frock – with yoke, with sleeve, Gathered, flared, with collars 9. Boy's shirt – shirt collar, pocket 10. Boy's short – fly open with buttons, side pocket, pleats and dart

REFERENCES**COMPULSORY**

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	Cutting & Tailoring course, Gayathri Verma & Kapil Dev, Computech Publications

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1	https://epgp.inflibnet.ac.in/home/viewsubject?catid=827
2	https://www.youtube.com/watch?v=LuazkYL0j3a
3	https://www.youtube.com/watch?v=nI-shbmnuVg

B. Sc. COSTUME DESIGN & FASHION
SEMESTER –IV
CORE –IV – CARE AND MAINTENANCE OF TEXTILES

COURSE OBJECTIVES:

- This course facilitates an understanding, care and maintenance of textiles and orients the learners in the field of clothing industry.
- The learners are expected to know the laundry soaps, Laundry equipment and dry cleaning in textile industry.
- Impart the knowledge of machines and equipment used in washing, storing, and ironing process

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Identify the suitable methods of washing, drying, ironing and storing	K5
CLO2	Understand the wash care labels and act accordingly	K2
CLO3	Appraise the types of equipment used in the care of fabric.	K5
CLO4	Recognize the need for dry cleaning for fabrics	K2
CLO5	Evaluate the methods and equipment to be used for the better life of clothes	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Clothing Care Essentials	Water- hard and soft water, determination of water hardness, methods of softening water. Zeolite or base exchange. 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, Difference between soap & detergents.
2	Laundry and Drying Equipment	Stiffening Agents – Starch (cold water and hot water) , Other stiffening agents,preparation of starch. Bleaching agents-Types of Bleaching agents-oxidizing and reducing agents, grease removers- grease solvents-grease absorbents, bran-French chalk. Laundry blues, their application .
3	Finishes and stiffening agents	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.
4	Principles of Washing	Principles of washing suction washing, washing by kneading and squeezing, washing by machine - Process details and machine details. Laundering of Cotton and linen, woolens, coloured fabrics, silks, rayon and nylon. Special types of Laundry – water proof coats, silk ties, leather goods, furs, plastics, lace. Dry cleaning – using absorbents, using grease solvents. Dry cleaning- definition and its types.

5	Special Types of Laundry & Care Labels	Stain removal food stains, lead pencil, lipstick, mildew, nose drops, paint , perfume, perspiration / mildew, tar, turmeric and kum- kum, general rules & ways of stain removal. Care labels – washing, bleaching, Drying, ironing and different placements of label in garments.
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COMPULSORY	
1	DantyaGIS, “Fundamentals of Textile and Their Care”, Oriental Longmans Ltd, NewDelhi,1996
2	Denlkar, “Household Textiles and Laundry Work”,Atma Ramand Sons,Delhi,1993
3	Neomi D’Souza, “Fabric Care”,New Age International Publisher,1998
4	Davis, “Laundry and Clothing Care”, Drama Book Publishers,1995
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1	https://www.bhg.com/homekeeping/laundry-linens-cloths-how-to-wash-clothes-by-hand/
2	https://textilelearner.blogspot.com/2013/07/textile-finishing-processing.html

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER –IV
CORE –V HISTORIC COSTUMES AND TEXTILES OF INDIA**

COURSE OBJECTIVES:

- Imparting Knowledge of textiles through the .sense of design.
- To understand different type costumes to influence the various states.
- To understand the symbolism of traditional embroidery through motifs

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Identify a specific textiles of India on the basis of colours, motifs, layouts.	K3
CLO2	Classify the regional costumes of India.	K2
CLO3	Classify the regional costumes of India.	K2
CLO4	Understand the evolution of Indian jewelleryes over a period time.	K2
CLO5	Classify the regional embroideries of India.	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Woven textiles of India	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.
2	Regional costumes of India	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
3	Regional costumes of India	Traditional Costume of different States of India; Maharastra, Rajasthan, Haryana, Himachal Pradesh, Uttarpradesh, Jammu and Kashmir, Gujarat, Madhya pradesh.
4	Evolution of Indian Jewelleryes	Indian Jewellery – jewelleryes 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, Tribal jewellery A brief study of gems and precious stones.
5	Traditional Embroideries	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.

REFERENCES**COMPULSORY**

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

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER –IV
ALLIED – II TEXTILE WET PROCESSING**

COURSE OBJECTIVES:

- To gain knowledge on basic processing of textiles
- Dye the fabrics using the suitable dyes
- Prepare the fabric for finishing
- To enable students on eco – friendly processing in textile

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Familiarize with the Process sequence in a textile industry	K2
CLO2	Revise and experiment the basic preparatory processing for fabrics	K5
CLO3	Apply the dyes and dyeing methods	K3
CLO4	Understand the various dyeing machines	K2
CLO5	Analyse the pollution created by the textile industry and the need for effluent treatment	K4

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Wet Processing Process and Basic Finishes	Introduction to textile processing-process sequence-impurities present in grey fabric. Desizing- objects & types-acid, Enzyme desizing. Scouring-objects & types-open scouring, kier boiling
2	Bleaching- objects & types,	Bleaching- objects & types, chemicals used-hypochlorite, hydrogen peroxide bleaching. Scouring and bleaching of wool, silk, nylon & polyester. Mercerization- objects & types chain, chainless mercerizing.
3	Dyes and Dyeing Methods	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.
4	Concept of Dyes and Dyeing Machines	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- Shrink controlling - steaming. Loose stock dyeing machine.
5	Effluent treatment methods	Colour fastness to washing-light, rubbing and perspiration. Computer colour matching. Study of Eco - friendly chemical processing. Effluent treatment methods – colour removal -bio degradation.

REFERENCES**COMPULSORY**

1	Shenai V.A.” Technology of textile processing” Vol. III, V, VII Sevale publications, Bombay 1981.
2	Bleaching and Mecerization-E.R.Trotman, Charles griffin co, London 1993.
3	Textile printing-Dr.V.A.Shennai,sevak publication Mumbai 1991.
4	Textile Finishing-Dr.V.A.Shennai,sevak publication Mumbai 1991.
5	Manivasakam.N. Treatment of Textiles Processing, Effluents, Sakthi Publications, Coimbatore, 1995.

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2	http://www.neoakruthi.com/blog/etp-for-textile-industry.html
3	https://textilelearner.blogspot.com/2011/08/flow-chart-of-wet-processing-process.html
4	https://www.textileschool.com/343/fabric-wet-processing-techniques/
5	https://www.fibre2fashion.com/industry-article/1699/special--finishes-to-garment-an-overview

B. Sc. COSTUME DESIGN & FASHION
SEMESTER - IV
CORE PRACTICAL – IV - WOMEN'S APPAREL PRACTICAL

COURSE OBJECTIVES:

- To introduce the concept of garment making
- To impart knowledge and skills required for women's apparel components

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Students will be able to understand the women's body with respect to design selection of fabrics & accessories.	K2
CLO2	Students will be able to independently design a dress for women's fashion wear.	K6
CLO3	Design Garments for Women	K6
CLO4	Develop patterns for women using drafting method	K6
CLO5	Construct garment by sewing	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit Title	Chapter
Design, Draft and construct the Women's garments with given features	<ol style="list-style-type: none"> 1. Saree petticoat 2. Saree blouse 3. Middy – Variation in panel, bottom round 4. Middy Top – Front open, single dart, with or without collar and variation in sleeves. 5. Night dress - With or without yoke, variation in Sleeves, attaching trimmings. 6. Maxi – Variation in neck with or without sleeve and attaching trimmings. 7. Salwar - Gathered waist with tape or elastic, bottom design variation. 8. Kameez - Fashioned neck, variation in sleeve. 9. Ladies pant - Variations in bottom zip attached, patch pocket. 10. Ladies shirt - Half open collar attached, half or full sleeve.

REFERENCES**COMPULSORY**

1	Scientific garment quality –K M Illege and Sons , Plot No. 43 , Somuvar Peth pune 411011
2	Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai (1986)
3	Dress making- Smt Thangam Subramaniam Bombay Tailoring and embroidery college 32
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
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	https://shoeguide.com/

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER - IV
ALLIED PRACTICAL – IV TEXTILE WET PROCESSING PRACTICAL**

COURSE OBJECTIVES:

- To gain a practical on-hand training on preparatory process
- To understand the technical importance of wet processing
- To plan various process requirements for dyeing

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Apply various dyes on fabrics Print textile fabrics in different styles.	K3
CLO2	Remember the various terms of wet processing	K1
CLO3	Understand the technical implications of wet processing	K2
CLO4	Analyze various chemical reactions and their implications.	K4
CLO5	Understand the preparatory process and its requirements.	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit Title	Chapter
Preparation of samples for Processing	1. Desizing (acid & enzyme) 2. Scouring 3. Bleaching 4. Mercerizing
Dye the given fabric using suitable dye	1. Direct Dye 2. Reactive Dyes (Hot & Cold brand) 3. Sulphur Dye 4. Vat Dye 5. Disperse Dye 6. Acid Dye 7. Basic Dye 8. Natural Dye

REFERENCES**COMPULSORY**

1	AATCC Garment wet processing Technical manual (1994)
2	Textile processing and properties, Preparation, Dyeing, Finishing & Performance, Tyrone L. Vigo, elsewhere publishing, Netherland
3	Textile Wet processing, Manoj Dole, Manoj Dole Publications Co. India (2018)

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<https://www.sciencedirect.com/topics/engineering/dyeing-process>

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER - IV
SBEC – II- SURFACE EMBELLISHMENT PRACTICAL**

COURSE OBJECTIVES:

- To impart knowledge on various hand and machine embroideries
- To gain practical knowledge on different trimming and decoration
- To impart knowledge on fashion accessories & creativity.

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Hand embroidery stitches and machine embroideries are developed.	K6
CLO2	They will be able to develop & design complex fashion accessories by learning to design different accessories manually	K6
CLO3	Create added structural effects using smocking	K6
CLO4	Gain knowledge of Different types of Applique	K3
CLO5	Design and develop the samples for beadwork	K6

K1- Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit Title	Chapter
Prepare samples for Hand, Machine Embroideries and Trimmings	<ol style="list-style-type: none"> 1. Hand embroidery – 20 stitches -10 samples 2. Machine embroidery -7stitches -3 samples. 3. Applique (machine / hand)- 3 types 4. Smocking -3types 5. Laces – 6 types 6. Bead Work -1 sample 7. Sequins work -1 sample 8. Zardosi work -1 sample 9. Belts – any 2 types. 10. Bows –any 2 types 11. Tassels and fringes -2-3 samples. 12. Mirror work –Shapes (Round, square, diamond) 3 samples 13. Fixing the stones-1 sample.

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER - IV
NMEC II – FUNDAMENTALS OF DESIGNING**

COURSE OBJECTIVES:

- Impart knowledge on design concepts in the field of fashion
- Familiarize with the fashion cycles, consumers and theories
- Design suitable garments for unusual figure types

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Students can learn various colour aspects in fashion designing.	K2
CLO2	The art of garments construction & pattern making can be easily drafted by students	K6
CLO3	Understand the design types, elements and principles of design	K2
CLO4	Appraise the colour combinations with standard colour harmonies	K5
CLO5	Interpret the fashion cycles, consumer groups and fashion theories	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Design and its types	Types of Design - Structural and Decorative design, Requirements of Structural and Decorative Design, Elements of Design - Line, Size, Shape, Color and Texture.
2	Principles of design	Principles of Design - Balance, Emphasis, Proportion, Rhythm, Harmony and its types. Application of principles of design in dress design.
3	Color theory	Color- Definition, Color theory - Prang color system, Dimension of color- Hue, Value and Intensity. Color schemes in Prang color System.
4	Designing dresses for unusual figures	Figure Irregularities - Stout figure, Thin figure, Broad shoulders, Narrow Shoulders, Faces – Round, Large, and Small face.
5	Wardrobe Planning	Wardrobe Planning – Factors to be considered while selecting clothes for different age group – Men, Women and Children.

REFERENCES**COMPULSORY**

1	Fashion Sketch Book – Bina Ablang, Fair Child Publications, New York Wardrobe, 1988.
2	Fashion from Concept to Consumer – Frings Gini Stephens, Pearson Education, US, 1998.
3	Inside the Fashion Business – Kitty G. Dickerson, Pearson Education, US, 2007.

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1	https://www.apparesearch.com/terms/index.html
2	https://www.instyle.com/fashion

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER - V
CORE – VI - COMPUTERS IN GARMENT INDUSTRY**

COURSE OBJECTIVES:

- To know the applications of Computer Aided Designing in fashion Industry
- To gain the knowledge on 3D modeling selection
- To provide a details about presentation and graphics and its need for fashion industry.

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Explain the practical knowledge with CAD theory	K2
CLO2	Interpret the rudiments of CAD software in textile and knitting industry	K2
CLO3	Develop knowledge in selection of 3D and selection of Fashion multimedia to current fashion trends	K3
CLO4	To exhibit the software applications, digitizing and grading system used in textile industries.	K5
CLO5	Explain the functions of various computer applications	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Concept of computer	Introduction to computers –Organization of Computers –Input Unit, Output Unit, Central Processing Unit ,Memory Devices, Working Principles of Printer-Scanner, Digitizer and Plotter.
2	Application of Computer in weaving and knitting	Computer Application in Textile Designing – Weaving – Types of woven Design- Dobby and Jacquard- Techniques Used. Knitting – Types of knitting. Printing – Creation of Printed Design – Simulation Technique.
3	Computer Application in Fashion Designing	Computer Application in Fashion Designing-Design Creation- Theme Rendering- 3D Modeling- Body Scanning-Texture Mapping-Design Studio- Fashion Studio- Fashion Multimedia Concepts.
4	Computer Application in Pattern Making	Computer Application in Pattern Making- Process involved in Pattern Making GradingMarker Planning-Laying-Cutting- Labelling-Duplicating. Computerized Sewing Machine
5	Computerized Embroidery Machines. And Color Matching System.	Computer Aided Manufacturing – Concepts of Computer Integrated Manufacturing – Definition and Functions of CAD, CAM, CIM, CAA, PDC . Computerized Embroidery Machines. Computerized Color Matching System.

REFERENCES**COMPULSORY**

1	CAD/CAM computer aided design and manufacture, Groover MP and E.W.Zinimmers, prentic hall, India 1984.
2	Computers in fashion industry, Taylor P, Heinemann publications 1990.
3	Computer aided design and manufacture, Bezant C.E, Ellis Horwood, England,1983. 4. CAD in clothing and textiles, Winfred Aldrich, Blackwel science, 1994
4	Computer aided drafting and design –concept and application, Veinsinet DO, 1987.
5	Computer Fundamentals – P K Sinha , BPB Publications, Delhi (1992)
6	Pattern Grading for Women's Clothes The Technology of sizing – Gerry Cooklin, Blackwell Science Ltd (1990)

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER –V
CORE –VII - TEXTILE FINISHING**

COURSE OBJECTIVES:

- To impart knowledge & understanding of chemistry, mechanism & application process of various textile finishes.
- It aims to enhance the awareness of future trends in textile finishing.
- To impart the knowledge about finishing methods of fabric based on their function.

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Understand the method & application of finishes on different textile substrates.	K2
CLO2	Gain awareness of new advancement in the area of finishing	K2
CLO3	Apply various finishes based on the various functions of the fabric	K3
CLO4	Analyze the various methods to process the fabric	K4
CLO5	Analyze new eco-friendly technologies to produce eco-friendly product	K4

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Finishing	Finishing - Introduction – Objects of finishing, Importance of finishing, Classification of finishes, Advantages of finishing.
2	Mechanical Finishing	Mechanical Finishes - Beetling, Shearing, Calendaring, Tentering, Moiring, Embossing, Glazing, Napping, Chemical Weighting Of Silk, Sizing, Sanforizing, Schreiner, Wrinkle free finish.
3	Functional Finishing	Functional Finish - Resin finish, Water Proof finish, Water Repellent finish, Antimicrobial finish, Flame Retardant finish, Soil Release finish - Process and Recipe, Types and Method of Fusing, Welding and Adhesives, Molding.
4	Advanced Finished	Advanced Functional Finish - Stiff finish - Process and Recipe, Softening - Silicone finish, Denim finish, Stone Wash finish, Anti - Pilling finish, Anti Mildew finish.
5	Special Finishes	Special Finishes On Garments – Finishing of Woven / Knitted garments – Stone less, Stone Wash effects – Mud wash, Ion wash, Chalk wash, Water resistant Breathable finish, Bio polishing, Leathery Finish, Protective Finishes –Deodorizing, Cool Finish and Thermostat finishes.

REFERENCES**COMPULSORY**

1	Shenai and Saraf. 1995. Technology of Textile Finishing Sevak publications.
2	Nallangilli and Jayaprakasam. 2005. Textile Finishing . S.S.M Institute of Textile Technology.
3	Prayag. 1996. Technology of finishing . ShreeJ. Printers, Pune

Related websites

	https://nptl.ac.in/courses/116/102/116102054/
	https://ugcmoocs.inflibnet.ac.in/ugcmoocs/view_ug.php/130

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER –V
CORE – VIII – PRINTING TECHNOLOGY**

COURSE OBJECTIVES:

- To impart the various terminology used in textile printing.
- Styles and methods involved in printing.
- Various effects produced by various styles of prints.
- Limitation of the printing methods

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Understand the concept of colour and its measurement techniques.	K2
CLO2	Apply the process of dyeing of various fibers with different dyes	K3
CLO3	Understand the mechanism of dyeing with different dyes.	K2
CLO4	Understand different styles of printing.	K2
CLO5	Describe the Advanced printing techniques	K3

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Introduction to Printing	Printing – Introduction to printing , differences between printing and dyeing, preparation of fabric for printing – cotton , linen, polyester, wool and silk, preparation of printing paste, selection of thickening agents.
2	Different styles of printing	Styles of printing-Direct printing : Block printing –, Preparation of design , Blocks, print paste and printing process. Stencil printing –preparation of fabric , stencils (For one or more colour) Materials used for preparing stencils, process involved and techniques used . Resist printing: Batik printing- wax used, Equipment required, process sequence and techniques used. Tie and dye – Equipment required, process sequence and techniques used.
3	Printing Machines	Screen printing- preparation of screen, printing paste, printing process–Table screen printing, Flat bed screen printing machine, Rotary screen printing machine. Discharge printing-chemicals used, process involved.
4	Methods of Printing	Methods of Printing, Block, Flat, Rotary Screen, engraved Roller, Transfer, Duplex printing, Pigment Printing, Batik, Khadi .
5	Printing Techniques	Advanced printing techniques-electrostatic, digital, sublimation. Othe printing methods :Ink jet printing, Heat transfer printing , photo printing. Fixation and after treatment, Printing

REFERENCES**COMPULSORY**

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	Charles Griffin co, Dyeing and chemical technology of textile fibers, Wood head Publishing Limited, London, 2004.

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER –V
CORE PRACTICAL V – COMPUTER AIDED DESIGNING PRACTICAL**

COURSE OBJECTIVES:

- Acquire skills in developing patterns through computer software.
- To understand the basics of CAD software
- Drafting, Grading and Marker planning of garment patterns using new advance software

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Understand the most economic layout of marker planning.	K2
CLO2	Apply knowledge of using software to undertake design projects.	K3
CLO3	Apply knowledge in drafting patterns and grading them to different sizes using CAD software.	K3
CLO4	Evaluate fit and pattern alteration	K5
CLO5	Create more accurate and designer patterns through computer aided designing.	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Types of Design	Application of types of Design in garments - Structural Design, Decorative Design, Geometrical Design, Abstract Design
2	Application of Colour Harmony in Garments	Application of Colour Harmony in Design Garments -Monochromatic Colour harmony, Analogues Colour harmony, Single Complementary Colour harmony, Double Complementary Colour harmony, Triad Complementary Colour harmony, Tetrad Colour harmony , Neutral Colour harmony.
3	Application of Elements of Design in garments & Application of Principles of Design in garments	Application of Elements of Design in garments-Line, Size, Shape, Colour. Application of Principles of Design in garment-Balance, Rhythm, Emphasis, Harmony, Proportion
4	Design the Given Garments Photoshop software	Design Garments for the following 1. Party Wear- Men & Women Garments 2. Casual Wear- Men & Women Garments 3. Sports Wear- Men & Women Garments Create a design using Photoshop Software i) Create visiting Cards invitation and certificate using Image Mixing
5	Prepare Pattern and Grading for the Given Garments	Prepare Pattern, Grading and Marker Efficiency for the following Garments using CAD Software. 1. Children Garment- Jabla , Boys Shirt. 2. Women's Garment – Maxi, Salwar& Kameez 3. Men's Garment- T-Shirt, Pleated Trouser

REFERENCES**COMPULSORY**

1	Pattern Cutting For Clothing Using Cad: How To Use Lectra Modaris Pattern Cutting Software - Stott M, Woodhead Publishing Ltd, 2012
2	Pattern Cutting And Making Up Revised Edition - Shoben M M , CBS Publishers and Distributors, 2000
3	Computer Aided Design & Manufacturing (Test CAD Programs Inside), Sadhu Singh, Khanna Publications, 1998.
Related Online Content [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://medcraveonline.com/JTEFT/various-approaches-in-pattern-making-for-garment-
2	https://www.youtube.com/watch?v=iX7O4X7O4fNQjA

**B. Sc. COSTUME DESIGN AND FASHION
SEMESTER V
INTERNSHIP – PROJECT VIVA - VOCE**

COURSE OBJECTIVES:

- Expose the students to the work environment
- Familiarize and adapt to the workplace
- Understand the methods, techniques and practices followed in the place of training

COURSE LEARNING OUTCOMES (CLOs)

By the end of the IN PLANT Training, students will be able to

CLO1	Understand the working structure of the industry/ company	K2
CLO2	Analyze the methods adopted in the training place	K4
CLO3	Correlate to the theoretical knowledge gained in the college	K4
CLO4	Recognize the challenges in the training place	K1
CLO5	Discover the nuances of the workplace and appreciate it	K3

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Grading system will be followed
Details of the Training
The student should undergo 15 Days Internship training in a • Spinning Industry • Auto loom industry • knitting industry • Textile design studio - Dobby, Jacquard designing by using manual & software. • Home Textile • Textile processing unit • Textile Testing laboratory • Garments unit- Woven/ Knitting • Buying Office • Non - Woven Industry after Fourth semester theory exam / before the start of Fifth Semester.
Purpose of the Internship Training
The training bridges the gap between the theoretical knowledge gained in the college and the practical application of the same in the industry / company / stores The student will have a better exposure about the workplace and its nuances
Process to be Followed
Grading system (Highly Commended/Commended)
Students can identify their area of interest. Industry / companies has to be identified and a profile of the company has to be analyzed at least a month earlier. Contacts can be established by the guides allotted to the student. Prior permission has to be obtained from the place of training. After confirmation, the student will undergo training for a period of 15 working days.

Instructions to the Supervisor

The supervisor should establish contacts with the place of training. A routine follow up has to be done with the student once in two or three days. Problems, if any faced by the student should be sorted out immediately.

Instructions to the Students

The students should abide by the rules and regulations of the concern and get the maximum benefit from the training. The students should maintain a daily logbook where the student should record his details of the training.

A copy of the record has to be sent to the supervisor allotted to the student. The logbook must be signed (with seal) by the staff of the company. Based on the study done, the student will submit a report to the guide within a weeks' time along with the logbook. In case of any problems, the student should reach out to the supervisor immediately

Training Report and Presentation

Training Report (30 – 50 pages) should be prepared by the student and submitted in a month's time. At the end of the semester student should present the report with a power point presentation

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1	https://www.wikihow.com/Write-a-Report-After-an-Internship
2	http://mfe-iseah-kef.blogspot.com/2013/11/internship-daily-journal.html
3	https://www.academia.edu/25257761/Student_Internship_Logbook
4	https://www.indeed.com/career-advice/career-development/how-to-write-an-internship-report
5	https://valenciacollege.edu/students/internship/documents/ActivityLog.pdf

B. Sc. COSTUME DESIGN & FASHION
SEMESTER –V
CORE PRACTICAL VI – PRINTING TECHNOLOGY PRACTICAL

COURSE OBJECTIVES:

- To enable the students to create a painting design.
- To learn how to use different sources in painting.
- To choose the different color combinations in painting.
- To suggest suitable colors and Fabric for all

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Understand the Preparation of samples for printing	K2
CLO2	Apply the technique of printing paste preparation	K3
CLO3	Apply the new design for block and stencil printing	K3
CLO4	Apply the different methods for printing techniques	K3
CLO5	Create the natural colour for printing styles	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Preparation of sample for printing Printing paste	a. Cotton b. Polyester c. Silk. Preparation of printing paste
2	Block Printing Stencil Printing	Printing of cotton using block – vegetables and wooden blocks (2 samples each) Create design with stencil printing – Chest, Neck, Yoke (3 samples)
3	Tie and Dye Printing	Tie and dye of cotton fabric – any 3 methods.
4	Batik Printing	Batik print on the cotton fabric – any 3 methods.
5	Printing with Natural colour	Printing on cotton fabric with natural colours (3 samples).

B. Sc. COSTUME DESIGN & FASHION
SEMESTER –V
SBEC – III – MEN’S APPAREL PRACTICAL

COURSE OBJECTIVES:

- To impart the practical knowledge in pattern drafting & garment construction skill in men's wear for the Students.
- To develop creative skills in designing & constructing men's wear for different age group
- List the measurements required and materials suitable

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Prepare patterns & construct the garments.	K2
CLO2	Assess the suitability of fabric for men	K2
CLO3	Learn specific requirements for men's wear designing.	K5
CLO4	Students will be able to independently design a dress for men’s fashion wear.	K4
CLO5	Develop skills, and create creative patterns for the garments.	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit Title	Chapter
Design, Draft and construct the following Men's garments with given features	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, without sleeve, Fancy button attached. 4. Pleated Trouser - 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. Kalidhar kurtha - Kali piece, side pocket, round necks, half open. 7. Pyjama – Waist elastic and tape attached, fly. 8. T-Shirt – open collar with zip attached.

REFERENCES

COMPULSORY

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.

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER -V**

MBEC – I -GARMENT QUALITY AND COST CONTROL

COURSE OBJECTIVES:

- To learn the terms of quality in textile industries
- To know the uses of quality control and its specification of apparel industries
- To gain knowledge in merchandising and quality standards.
- To know the basic grids process for production control.

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Understanding of standards and regulations and quality control organization.	K2
CLO2	Acquire skills to inspect, manage and control quality in the textile industry.	K2
CLO3	Analyze the quality specifications in textile	K3
CLO4	Examine the quality control in finished garments, packaging and warehousing	K4
CLO5	Discuss about cost control and types of control forms.	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Definition- Quality Control	Basics of Quality Control Definition and Scope of Quality Control – Establishing Merchandising Standards–Establishing Raw Material Quality Control specifications – Quality Control of Raw Material.
2	Parameters- Quality Control	Quality Control System Establishing Processing quality specification – Training Quality Control Personnel – Quality Standard Control – Quality Control Inspection, Procedures for processing – Quality control of finished garments – Quality control and Government contacts – Quality Control for Packaging, Warehousing and shipping – Statistical Quality Control, Sampling plans – industry – wide quality standards.
3	Production control	Basics of Production control - Function of Production control – Production, Analysis – Quality Specifications – Quantitative specifications – Scope of Apparel Manufacturing Activity – coordinating departmental Activities – Distribution of Documents and Records.
4	Principles for- Production System	Production Control System Type of Control forms – Basic Production Systems – Principles for Choosing a Production System – Evaluating Production Systems – Flow Process Grids and Charts – Basic Flow Process Grid Construction – Flow Process Grids for Production control
5	Cost Control	Cost Control, Function of Cost Control: Types of Costs and Expenses – Apparel Manufacturing Cost Categories – Sales Cost Control – Purchasing Cost Control – Production Cost Control – Administration cost control – Cost Ratio Policies – the manufacturing Budget – Cash flow Control – Standard Cost Sheet, Break–Even Charts

REFERENCES**COMPULSORY**

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). Anx.41 E - B Sc CD F(Colleges) 2007-08

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER –VI
CORE-IX -FASHION MERCHANDISING**

COURSE OBJECTIVES:

- To acquaint students with various marketing and merchandising procedures
- To introduce students to fashion retailing
- Instruct about roles & responsibilities of merchandiser

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Understand the elements of cost in pricing apparels	K2
CLO2	Learn about the Budgeting process	K1
CLO3	Learn about the cost estimation techniques for various fabrics	K1
CLO4	Understand the functions of merchandiser	K2
CLO5	Do planning & programming	K3

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Merchandising	Merchandising: Introduction, Meaning- Apparel Merchandising – Classification of Exporters - Rating or Grading of export houses – Export merchandising and retail merchandising – Company profile and its contents. Types of merchandiser - Functions of a merchandiser – Essential requisites of a good merchandiser – Vendor sourcing, evaluation and development – Global sourcing – Vendor nomination by buyers – Reasons for vendor nomination
2	Classification of buyers	Classification of buyers, Process flow in apparel industry – Buyer sourcing & communication – Enquiry – Order confirmation –order review and its importance – Planning & programming: Master planning, Scheduling or route card – Factors for route card - programming for yarn, knitting, dyeing, stitching, sampling, accessories –Samples: Meaning & importance – Types of samples – expedition of samples
3	Inspection and its types	Inspection and its types – Testing – Check points before cutting - Pilot run or trial run and its importance – Approvals - Types of approvals – Shipping marks – Final inspection procedures – Self, Second and Third party inspection - Effective expedition procedures.

4	Order Sheet & Documentation	Order sheet and its contents – Packing list and its contents – Document formats: order sheet, packing list, invoice, inspection and testing reports etc., - Assortment and its types. Documents recording and maintenance – Claims and reasons for claims - Factory audits – Buyer’s code of conducts.
5	Promotion activities	Advertising- scope, importance, types, merits & demerits; sales promotion, personal selling. Retail management. Export associations – Apparel Export Promotion Council – Journals and magazines related to apparel and textiles – Trade shows and Fairs – Participation in trade shows – Advantages of trade shows and fairs - Apparel & Textile Trade shows and fairs in India.

REFERENCES

COMPULSORY

1	Building Buyer Relationships, Daragho' Reilly, Jullian J.
2	Gibbs 2. Inside the Fashion Business, Mc Millan Publishing Co.,
3	Fashion Merchandising, Elian Stone,
4	Apparel Merchandising, An integrated Approach, Krishnakumar, M, 2010, AbishekPublications
5	Apparel Merchandising, Robin Mathew, Book Enclave Publishers,
6	Jaipur 6. Apparel Merchandising, Jerry A & Rosenau, Fairchild Publications, London
Related websites	
1	https://www.toppr.com/guides/fundamentals-of-accounting/fundamentals-of-cost-accounting/elements-of-cost/
2	https://corporatefinanceinstitute.com/resources/knowledge/finance/budgeting/
3	https://efinancemanagement.com/budgeting
4	https://theinvestorsbook.com/pricing-methods.html

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER VI
CORE PRACTICAL – VII - FASHION ACCESSORIES AND ORNAMENTS
PRACTICAL**

COURSE OBJECTIVES:

- To impart knowledge of fashion Accessories
- To provide opportunity and to design and to develop fashion accessories

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Understand the course develop fundamental skills and accessories design,	K2
CLO2	Skills to understand materials with its processes	K2
CLO3	construction principles of various ornaments	K2
CLO4	Apply the anthropometrics, basics of sizes and proportions	K3
CLO5	Create the fashionable properties	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit Title	Chapter
To create the Fashion Accessories and Ornaments	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 types 6. Jewellery designing – Any 3 advanced types <ul style="list-style-type: none"> • necklace • earring • chain • bangles • anklets • finger rings 7. Crystal jewellery, Bead jewellery, Wooden jewellery 8. Purse and pouches – Any two types 9. Hair band and head bands – Any four types 10. Watches – Any two types

B. Sc. COSTUME DESIGN & FASHION
SEMESTER –VI
CORE PRACTICAL VIII - FASHION DRAPING PRACTICAL

COURSE OBJECTIVES:

- To introduce the Basic Draping techniques
- To familiarize students with Draping methods for different kinds of garments

COURSE LEARNING OUTCOMES (CLOs)

By the End of the Course, Students will be able to

S. No	Outcomes	
CLO1	Remember the basic principles of draping for fashion design.	K1
CLO2	Understand the style lines and proportions of the garment to be draped.	K2
CLO3	Apply knowledge to produce patterns for the component parts of a garment.	K3
CLO4	Analyze the proper fit and grain of the fabric in relation to design.	K4
CLO5	Create & develop a design through three-dimensional experimentation	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Title	Chapter
Prepare the samples using the Draping	<ol style="list-style-type: none"> 1. Basic bodice - Front and Back 2. Skirts - Pleated skirt, Flared skirt, Umbrella skirt 3. Sleeves - Plain sleeve, Bell Sleeve, Raglan Sleeve, Puff sleeve, Circular Sleeve, Kimono sleeve 4. Neckline variations - Boat neck, Halter, Scooped, Scalloped, V-Shape 5. Collars – Mandarin, Peter Pan, Turtle, Ruffled, Shawl, Shirt. 6. Yoke – Hip, Midriff, Shirt 7. Design and Drape one couture wear for men 8. Design and Drape one couture wear for women 9. Design and Drape one couture for kid wear for boy / girl

REFERENCES:**Compulsory**

1	The Art of Fashion Draping, Connie Amadan Crawford, Fair Child publication, Newyork, 2005.
2	Draping for Apparel Design, Hellen Joseph, Armstrong, 2008

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER -VI
MBEC – II – BOUTIQUE MANAGEMENT**

COURSE OBJECTIVES:

- To enhance designing creative and innovative fashion pieces as well as enhancing the skills required to market and promote one's brand or boutique.
- To impart knowledge of fashion design and the management of a small business.
- To impart skills in apparel production in an industrial set-up.

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Identify the suitable the beginning of your own business.	K5
CLO2	Understand to build the blueprint of the boutique	K2
CLO3	Appraise the types right sources for investments	K5
CLO4	Recognize to ever growing industry- Interior Design	K2
CLO5	Understand the role of small and medium scale enterprises in the industry	K2

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Unit Title	Chapter
1	Entrepreneurship	Entrepreneurship- Meaning definition and types, need for Entrepreneurs, qualities and types of Entrepreneurship. How to start a boutique, creating a business plan, financial planning.
2	Institutions supporting entrepreneurs	Institutions supporting entrepreneurs- DIC, NSIC, SISI, SIPCOT, TII, KVIC. Government norms to run a boutique. Inventory planning.
3	Interior designing	Interior designing – Design department, Finance department, Production department, sourcing of raw material
4	Management	Buyer supplier relationships, consumer relationship, tips and tricks to attract customers. Labor management -health, safety and welfare and warehouse.
5	Quality control	Quality control, research and development and analysis, marketing and promotion, maintenance of boutique.

REFERENCES**COMPULSORY**

1	Opening a boutique store: how to start your own boutique, Briana Stewart Bull City Publishing, 2014.
2	Fab jobguide to become a boutique owner, Tag Goulet, Debra Mikaelson, Catherine Goulet, Fabjobincorporated, 2011.
3.	Fashion unraveled: How to start, run and manage an independent Fashion Label, Jennifer Lynne Mathews, 2009.
4.	Introduction to clothing production management – AJ Chester 2nd Edition, Wrenbury Associates Ltd(1998).
5.	Garment Exports – Darlie OKoshy (1997)
6.	Entrepreneurship Development in India – Dr.C.B Gupta, Dr N.P. Srinivasan, Sultan Chand and sons delhi 1997
7.	Principles of management- Dinakar pagare, Sultan Chand and sons, delhi.

B. Sc. COSTUME DESIGN & FASHION
SEMESTER –VI
CORE PRACTICAL-IX- PORTFOLIO PRESENTATION VIVA VOCE

COURSE OBJECTIVES:

- To design and execute an organized collection of creative works
- To make original works of art that demonstrates effective use of design principles, appropriate craftsmanship and technique.
- Design collections by fulfilling the objectives of the client and user requirements.

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Apply the design principles to create a series of design collections.	K3
CLO2	Apply various boards for the exhibition of their works in a portfolio.	K3
CLO3	Analyze fashion forecasting for the specific season, customer profile and price range to create a portfolio collection.	K4
CLO4	Create a well-structured and professionally presented portfolio.	K6
CLO5	Create a design philosophy communicating their design capabilities.	K6

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit	Chapter
Portfolio development and Presentation technique	1. To be planned for any 3 Occasion - Forecasting colors, Pattern and Fabric for the ensuing seasons based on International forecast. 2. Preparation of Mood board- develop a theme based, Story board. 3. Fabric development chart - Collections of fabric Swatches and Colors. 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 – 1 garment

REFERENCES**COMPULSORY**

1	Portfolio Presentation for Fashion Designers, Linda Tain, Fairchild Publishers (1998)
2	Fashion Design Drawing and Presentation, Patrick John Ireland, B T Batsford Ltd, 2006
3	Creative Fashion Presentation, Polly Guerin, Fairchild Publishers, 1987
4	New Encyclopedia of Fashion Details, Patrick John Ireland, Publisher: Pavilion Books, 2008
5	Check and Stripe: A Design-Source Book 2, Kyoto Shoin Company Ltd. 1992

**B. Sc. COSTUME DESIGN & FASHION
SEMESTER - VI
SBEC – IV - BEAUTY CARE PRACTICALS**

COURSE OBJECTIVES:

- Produce a capable & skillful workforce as required by the prevailing market demands.
- Equip the trainees with skills & knowledge to ensure adherence to safety measures in saloon.
- Select, operate and handle equipment according to the professional standards

COURSE LEARNING OUTCOMES (CLOs)

By the end of the course, students will be able to

CLO1	Students can establish their own beauty parlour.	K6
CLO2	They can groom themselves at their home.	K6
CLO3	Students may join any beauty parlour	K6
CLO4	They can join sectors such as airline, show business etc., where numerous females work, and are essentially required to put on makeup and hairstyle.	K3
CLO5	Practice beauty techniques	K3

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create

Unit Title	Chapter
Do the Experiments	<ol style="list-style-type: none"> 1. Bleaching 2. Facial 3. Hair remover- <ul style="list-style-type: none"> • Threading, • Waxing 4. Hair style – any 3 styles 5. Hair cut – any 3 styles 6. Hair curl, Hair straightening, Hair colouring 7. Make up – <ul style="list-style-type: none"> • Face makeup, • Bridal make up • Party make up 8. Nail treatment – <ul style="list-style-type: none"> • Pedicure, • Manicure, • Nail art 9. Saree draping – any 3 styles 10. Visit a beauty parlour

REFERENCES**COMPULSORY**

1	Complete Beautician Course by Renu Gupta
2	Be your own Beautician by Parvesh Handa
3	Advance makeup and hairstyle by Urvashi Dave
Related websites	
1	https://bit.ly/2DB2WQM
2	https://youtu.be/sYoz3G2OH5g