



**THIRUVALLUVAR
UNIVERSITYSERKKADU,VELLORE-632115**

B.Sc. COSTUME DESIGN AND FASHION TECHNOLOGY

SYLLABUS

(With effect from 2022 - 2023)

Program Educational Objectives (PEOs)	
The B. Sc. Costume Design and Fashion program describe accomplishments that graduates are expected to attain within five to seven years after graduation	
PEO1	Proficient Entrepreneur or Designer
PEO2	Competent in industry, academic or research in the field of garment and fashion technology
PEO3	Flair in Garment technology, Fashion designing, Merchandising and apparel Manufacturing
PEO4	Develop entrepreneurial, business and Management skill
PEO5	Skilled in fashion portfolio presentation, dyeing industry, basic draping and garment industry, technical textile industry.
PEO6	Possess skills of Merchandiser, Fabric inspector, Quality controller
PEO7	Develop as a costume designer, CAD designer
PEO8	Demonstrate creativity and deploy creative ideas in apparel, fashion and Textile Industry.
PEO9	Possess professional, ethical qualities and demonstrates spirit of excellence and leadership in career
PEO10	Equip Human Values, Ethics and Principles and have a concern over the society

Program Specific Outcomes (PSOs)	
After the successful completion of B.Sc. Costume Design and Fashion program, the students are expected to	
PSO1	BeprofessionallytrainedintheareasofApparelDesigningandtechnologyandtoacquireknowledgeofvarious garments.
PSO2	UnderstandthebasicconceptsofFashionDesign,itsPsychologyandTraditionalcostumes
PSO3	Demonstrate understanding of the principles of selected fibres, Yarns, Fabrication and their Finishing techniques and methods.
PSO4	BeequippedwithApparelManagementandBusiness,Merchandising,qualitycontrolandEntrepreneurialskills.
PSO5	UnderstandtheconceptsofEnvironmentalconsciousnessandtoimpartcommunicationskill,holistic and value based education and lifelong learning ability.

Program Outcomes (POs)	
On successful completion of the B.Sc. Costume Design and Fashion program, the students are expected to	
PO1	Design, Draft and construct children, women and men's garments and develop Fashion portfolios.
PO2	Apply the terminologies and concepts of Fashion design in their respective field
PO3	Develop quality products for market by using appropriate merchandising and marketing strategies
PO4	Plan and execute order in a garment manufacturing unit covering all stages- fiber, yarn, fabric and garment manufacture
PO5	Analyse the structure of the fabric and appraise fibre, yarn and fabric with basic tests
PO6	Enhance fabric designs with dyeing, printing and surface ornamentation techniques

THIRUVALLUVARUNIVERSITY

B.Sc.,COSTUMEDESIGNANDFASHIONTECHNOLOGY

(CBCSPATTERN)

(With effect from 2022 - 2023)

SCHEME OFEXAMINATION

S.No.	Part	StudyComponents		Ins. Hrs /week	Credit	Title of thePaper	MaximumMarks		
		CourseTitle					CIA	Uni. Exam	Total
SEMESTERI									
1	I	Language	Paper-1	6	4	Tamil/OtherLanguages	25	75	100
2	II	English(CE)	Paper-1	6	4	CommunicativeEnglishI	25	75	100
3	III	CoreTheory	Paper-1	6	4	Basics ofGarment Construction	25	75	100
	III	CorePractical	Practical-1	3	0	Basics ofGarmentConstruction- Practical	0	0	0
4	III	Allied -1	Paper-1	4	3	Careand Maintenance ofTextiles	25	75	100
	III	Allied -1	Practical -1	3	0	Fashion Sketching	0	0	0
5	III	PE	Paper1	6	3	Professional EnglishI	25	75	100
6	IV	EnvironmentalS tudies		2	2	EnvironmentalStudies	25	75	100
		Sem.Total		36	20		150	450	600
SEMESTERII									
							CIA	Uni. Exam	Total
6	I	Language	Paper-2	6	4	Tamil/OtherLanguages	25	75	100
7	II	English(CE)	Paper-2	6	4	CommunicativeEnglishII	25	75	100
8	III	CoreTheory	Paper-2	5	4	FashionDesigning	25	75	100
9	III	CorePractical	Practical-1	3	2	Fashion Designing -Practical	25	75	100
10	III	Allied-1	Paper-2	3	3	Principles ofPatternmaking	25	75	100

		SEMESTER IV					CIA	Uni.E xam	Total
20	I	Language	Paper-4	6	4	Tamil/ Other Languages	25	75	100
21	II	English	Paper-4	6	4	English	25	75	100
22	III	Core Theory	Paper-4	5	4	Fabric Structure and Design	25	75	100
23	III	Core Practical	Practical-2	3	3	Fabric Structure and Design - Practical	25	75	100
24	III	Allied – 2	Paper-4	3	3	The Business of Fashion	25	75	100
25	III	Allied Practical	Practical-2	3	2	Garment Constructi on III	25	75	100
26	IV	Skill Based Subject	Paper-2	2	2	Textile Finishing	25	75	100
27	IV	Non- Major Elective	Paper-2	2	2	Textile printing	25	75	100
				30	24		200	600	800
		SEMESTER V					CIA	Uni.E xam	Total
28	III	Core Theory	Paper-5	5	5	Knitting	25	75	100
	III	Core Practical	Practical-3	3	0	Knitting & Basic Drap ing Practical	0	0	0
29	III	Core Theory	Paper-6	5	5	Business Finance	25	75	100
	III	Core Practical	Practical-4	3	0	CAD Practical II	0	0	0
30	III	Core Theory	Paper-7	5	5	Apparel Retail ing	25	75	100
31	III	Internal Elective	Paper-1	3	3	A. Organization of G arment Unit B. Printing Tech nology C. Entrepreneurial Development	25	75	100

32	IV	Skill Based Subject	Paper-3	3	3	Garment Quality and Cost Control	25	75	100
				30	29		125	375	500
		SEMESTER VI					CIA	Uni.E xam	Total
33	III	Core Theory	Paper-8	5	5	Computers in the Garment Industry	25	75	100
34	III	Core Practical	Practical-3	3	3	CAD Practical III	25	75	100
35	III	Core Theory	Paper-9	5	5	Textile wet processing	25	75	100
36	III	Core Practical	Practical-4	3	3	Textile wet processing	25	75	100
37	III	Internal Elective	Paper-2	3	3	A. Marketing and Merchandising B. Principles of Management C. Boutique Management	25	75	100
38	III	Internal Elective	Paper-3	3	3	A. Accounting and Business Management B. Export Analysis and Documentation C. Apparel Quality Management	25	75	100
39	III	Skill Based Subject	Paper-4	3	3	Innovation with Waste Fabrics	25	75	100
40		Compulsory Project		5	5	Fashion Design Portfolio	25	75	100
41	IV	Extension Activities		0	1		100	0	100
				30	31		300	600	900

Part	Subject	Papers	Credits	Total Credits	Marks	Total Marks
Part I	Languages	4	4	16	100	400
Part II	Communicative English & English	4	4	16	100	400
Part III	Allied (Odd Semester)	2	3	6	100	200
	Allied (Even Semester)	2	5	10	100	200
	Allied Practical	2	2		100	200
	Electives	3	3	9	100	300
	Core	9	(3-5)	41	100	1000
	Core Practical	4	(2-3)	12	100	500
	Professional English	2	3	6	100	200
	Compulsory Project (Group/Individual Project)	1	5	5	100	100
Part IV	Environmental Science	1	2	2	100	100
	Soft Skill	1	1	1	100	100
	Value Education	1	2	2	100	100
	NME & Others	2	2	4	100	200
	Skill Based	4	2	8	100	400
Part V	Extension Activities	1	1	1	100	100
	Total	43		140		4300

**SEMESTER
I
PAPER I
BASICS OF GARMENT CONSTRUCTION**

Course Objectives:

The main objectives of this course are to:

1. Teach the basics of the functions of the sewing machine and the essential tools
2. Explain the techniques of the pattern making, grading and alteration
3. Understand the types of sleeves, yokes and collars

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Describe the functions of a sewing machine and the tools needed for sewing
Compare the methods of preparing pattern
- CO3 Appraise the types of sleeve
- CO4 Analyze the types of collars and yokes
- CO5 Appraise the techniques in pattern layout, alteration and grading

UNIT-I

Parts and functions of a single needle machine, essential tools – cutting tools, measuring tools, marking tools, general tools, pressing tools, seams and seam finishes – types, working of seams and seam finishes Hems – types, stitches used.

UNIT-II

Fullness- definition, types. Darts, tucks, pleats, flares and godets, gathers and shirrs, frills or ruffles, flounces, facings – bias facing, shaped facing and decorative facing. Binding – single bias binding, double bias binding.

UNIT-III

Plackets – definition, characteristics of a good placket, types – inconspicuous placket and conspicuous plackets. Method of constructing the same. Fasteners – conspicuous (Button and button-holes, button loops, button with holes, shank buttons, eyelets and cords). Inconspicuous (press buttons, hooks and eyes, zips).

UNIT-IV

Sleeves – definition, types, set-in-sleeves – plain sleeve, puffsleeve, bishop sleeve, bell, circular. Modified armhole – squared armhole, cap sleeve and Magyar sleeve. Sleeve and bodice combined – raglan, kimono and dolman. Yokes – types, simple yoke, yoke with fullness within the yoke, yokes supporting/releasing fullness.

UNIT-V

Collars – definitions, types, peter pan, scalloped, puritan, sailor, square, rippled, full shirt collar, open collar, Chinese, turtle neck, shawl collar pockets – types – patch pocket, bound pocket, pocket in a seam, front pocket.

REFERENCE:

1. PracticalClothingConstruction–PartIandII,MaryMathews,CosmicPress,Chennai(1986)
2. TheCompleteBookofSewing–Dorling KindersleyLimited,London(1986)
3. SewingandKnitting –AReadersDigest,step-by–stepguide,ReadersDigestPvtLtd,Australia
4. Zarapkersystemofcutting–Zarapker.K.R.,NavneetpublicationsLtd,1994.

ReferenceBooks

1. PatternGradingforWomen’sclothing,Thetechnologyofsizing,GerryCooklin,Blackwell
ScienceLtd,1990.
2. Sewingand Knitting–AReadersDigest,Step-by-StepGuide,ReadersDigest
PvtLtd,Australia,1993.

RelatedOnlineContents[MOOC,SWAYAM,NPTEL,Websitesetc.]

- 1 <http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827>
- 2 <https://fashion2apparel.blogspot.com/2017/03/pattern-grading-methods-apparel.html>
- 3 <https://textilelearner.blogspot.com/2014/10/a-focus-on-garments-fitting.html>
- 4 <https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making>

PRACTICAL-I

BASICS OF GARMENT CONSTRUCTION PRACTICAL

Course Objectives:

The main objectives of this course are to:

1. Impart sewing skills to create garment components
2. Develop miniature patterns for skirts, sleeves, collars and yoke
3. Create miniature samples for skirts, sleeves, collars and yoke

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Develop samples for seams, seam finishes and hems
- CO2 Create samples for fullness and neckline finishes
- CO3 Create samples for fasteners and pockets
- CO4 Construct miniature samples for skirt and sleeves
- CO5 Construct miniature samples for collars and yoke

I -Preparation Samples for the Following

1. Seams—Plain seam, topstitched seam, flat fell seam, piped seam, lapped seam
2. Seam Finishes—double stitch, edge stitched, overlock (optional)
3. Hems—narrow, stitched and turned, hems for circular shape
4. Darts—single and double
5. Tucks—Pintuck, cross tuck, group tucking
6. Neckline Finishes—Bias facing, Bias binding and Shaped facing
7. Plackets—continuous placket, bound placket and faced placket, zipper placket, tailored placket
8. Fasteners—Press buttons, Hook and eye, Button and Button hole
9. Pocket—Patch pocket, side seam pocket, bound and faced pocket

II -Prepare Miniature Samples for the following

1. Skirt—pleated skirt, gathered skirt, circular skirt
2. Sleeve—Plain sleeve, Magyar Sleeve, Raglan Sleeve
3. Collar—Flat collar (any type), Open collar
4. Simple Yoke

Text Book(s)

- 1 Practical Clothing Construction—Part I, Mary Mathews, Cosmic Press, Chennai, 1986.
- 2 Practical Clothing Construction—Part II, Mary Mathews, Cosmic Press, Chennai, 1986.
- 3 Zarapkar system of cutting—Zarapker. K. R., Navneet publications Ltd, 1994.

ReferenceBooks

- 1 SewingandKnitting–AReadersDigest, Step-by-StepGuide,ReadersDigestPvtLtd,Australia,1993.

RelatedOnlineContents[MOOC,SWAYAM,NPTEL,Websitesetc.]

1. <http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827>
2. <https://fashion2apparel.blogspot.com/2017/03/pattern-grading-methods-apparel.html>
3. <https://textilelearner.blogspot.com/2014/10/a-focus-on-garments-fitting.html>
4. <https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making>

ALLIED PAPER-I

CARE AND MAINTENANCE OF TEXTILES

The main objectives of this course are to:

1. Give understanding on proper care of the clothing
2. Impart knowledge on machines and equipment's used in washing, storing and ironing process
3. Impart knowledge on the types of wash care labels and their meaning

Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Identify suitable methods of washing, drying, ironing and storing
- CO2 Understand the wash care labels and act accordingly
- CO3 Appraise the types of equipment used in the care of fabrics
- CO4 Recognize the need for dry cleaning for fabrics
- CO5 Evaluate the methods and equipment to be used for a better life of clothes

Unit:1

Water and Laundry Soaps

Water- hard and soft water, methods of softening water. Laundry soaps - composition of soap types of soap, soapless detergents, detergent manufacture, advantages of detergents, Manufacturing process of soap and detergents

Unit:2

Finishes and Stain Removal

Finishes - Stiffening Agents - Starch (cold water and hot water), Other stiffening agents, preparation of starch Laundry blues, their application. Stain removal - common methods of removing stains; food stains, lead pencil, lipstick, mildew, nose drops, paint, perfume, perspiration/mildew, tar, turmeric and kum-kum,

Unit:3

Washing, Drying and Ironing

Washing - Points to be noted before washing. Machine - types semi-automatic and Fully automatic; Top loading and front loading; wash cycles in a washing machine Drying equipment's - Indoor and outdoor drying Iron box - Parts and functions of an electric iron box; types - automatic iron box and steam iron. Ironing board - different types

Unit:4

Laundering of Different Fabrics

Laundering of different fabrics - cotton and linen, woollens, coloured fabrics, silks, rayon and nylon. Special types of Laundry - waterproof coats, silk ties, leather goods, furs, plastics, lace.

Unit:5

Storing, Dry Cleaning and Care Labels

Storing - Methods of storing clothes, Best way to store clothes Dry cleaning - Benefits, differences between dry cleaning and laundry, Steps in dry cleaning process Care labels - Importance and Types - The International Care Labelling System,

The Japanese Care Labelling System, The Canadian Care Labelling System, The European Care Labelling System, The American Care Labelling System

Text Book(s)

- 1 Wingate I B, Textiles fabrics and their Selection, Prentice-Hall Inc Publishers, 1946
- 2 Fundamentals of Textiles and their Care- Susheela Dantyagi, Orient Longman Ltd, 1980

Reference Books

- 1 Mildred T. Tate and Glisson O, Family Clothing, John Wiley & Sons Inc, Illinois, 1961
- 2 Durga Deulkar, Household Textiles and Laundry Work, Amla Ram & Sons, Delhi, 1951

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

- 1 <https://tide.com/en-us/how-to-wash-clothes/how-to-do-laundry/your-comprehensive-guide-on-how-to-do-laundry#Step1>
- 2 [https://www.coats.com/en/Information-Hub/Care-Labels#:~:text=Labels%20should%20be%20designed%20based,5\)%20Wringing%20%26%206\)%20Drying](https://www.coats.com/en/Information-Hub/Care-Labels#:~:text=Labels%20should%20be%20designed%20based,5)%20Wringing%20%26%206)%20Drying)
- 3 <https://www.customclothinglabels.com/uses/why-are-care-labels-so-important/#:~:text=Care%20labels%20are%20essential%20when,run%20could%20ruin%20the%20fabric.>
- 4 <https://www.drycleaning.com.sg/blog/5-differences-between-dry-cleaning-and-laundry.html>
- 5 <https://www.rinse.com/blog/care/what-is-dry-cleaning/>
- 6 https://fleming.ca.uky.edu/files/clothing_storage.pdf
- 7 <https://www.home-storage-solutions-101.com/clothes-storage.html>

ALLIED PRACTICAL – FASHION SKETCHING

Course Objectives:

The main objectives of this course are to:

1. Impart skills in drawing and coloring
2. Illustrate sketches for children, women, and men
3. Create sketches from the different perspectives of the parts of the body and face

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Illustrate garment designs for children
- CO2 Illustrate garment designs for woman
- CO3 Illustrate garment designs for men
- CO4 Sketch the parts of the body in various perspectives
- CO5 Sketch different views of male and female face

1. Illustrate the Following Children's Garments

Instructions – Create 3 design each; Colour using any medium; Give details

- Bib
- Jabla with knicker
- Babasuit
- Frocks

2. Illustrate the Following Women's Garments

Instructions – Create 3 design each; Colour using any medium; Give details

- Skirts
- Ladies tops
- Salwar
- Kameez
- Maxi/ Gown
- Dungarees

3. Illustrate the Following Men's Garments

Instructions – Create 3 design each; Colour using any medium; Give details

- T-Shirts
- Shirts
- Pants
- Kurta

- Pyjama

4. Illustrate the Following in Different Perspectives

Instructions—Create for male and female (3 perspectives each)

- Eyes
- Ears
- Nose
- Lips
- Hairstyles
- Arms
- Legs

5. Illustrate the Face of a Female and Male as Given Below

- Front view
- Three-quarter turned view
- Profile view (side view)

Text Book(s)

- 1 Fashion Design Drawing & Presentation, Ireland Patrick John, Pavilion Books, 1982.
- 2 Fashion Design Illustration: Children, Ireland Patrick John, BT Batsford Ltd, 1995.
- 3 Fashion Design Illustration: Men, Ireland Patrick John, BT Batsford Ltd, 1996.

Reference Books

- 1 Fashion Illustration, Kiper Anna, David & Charles, 2011. ISBN: 9780715336182, 9780715336182
- 2 Foundation in Fashion Design and Illustration—Julian Seaman, Batsford Publishers, 2001.

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

- 1 <https://www.idrawfashion.com/>
- 2 [https://www.fashionistasketch.com/drawing-faces-fashion-](https://www.fashionistasketch.com/drawing-faces-fashion-illustration/3)

illustration/3 <https://in.pinterest.com/pin/458804280762797371/>

SEMESTER-
IICOREPAPER-
II
FASHIONDESIGNING

Course Objectives:

The main objectives of this course are to:

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

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Understand the design types, elements and principles of design
- CO2 Appraise the colour combinations with standard colour harmonies
- CO3 Interpret the fashion cycles, consumer groups and fashion theories
- CO4 Develop dress design for unusual figure types
- CO5 Define and describe the fashion terminologies and fashion profiles

Unit:1 Design Elements and Principles

Design- definition and types – structural and decorative design, requirements of a good structural and decorative design in dress

Elements of design and its application in dress – line, shape or form, colour and texture. Principles of design and its application in dress – balance, rhythm, emphasis, harmony and proportion.

Unit:2 Standard Colour Harmonies

Colour theory; Prang colour chart Dimensions of colour- hue, value, and intensity. Standard colour harmonies – Related, Contrasting and Neutral colour harmony; Application of Colour in principles of design- application of the same in dress design.

Unit:3 Fashion Evolution and Fashion Forecasting

Fashion evolution – Fashion cycles, Length of cycles, consumer groups in fashion cycles – fashion leaders, fashion innovators, fashion motivation, fashion victim, Fashion followers. Adoption of Fashion theories – Trickle down, trickle up and trickle across. Fashion forecasting – Need for forecasting

Unit:4DesigningDressesforUnusualFigures

Deigning dresses for unusual figures – becoming and unbecoming – for the followingfiguretypes.Stoutfigure,thinfigure,narrowshoulders,broadshoulders, roundshoulders, large bust, flat chest, large hip, large abdomen, round face, large face, smallface,prominentchinandjaw,prominentforehead

Unit:5FashionTerminologiesandFashionProfiles

Definitionandmeaningof thefashion terms–fashion,style,lineandcollection,Mannequin and dress forms; fashion show; high fashion; Haute couture, couture andcouturier;knock-off;AvantGarde;Pre–a–porter
Role/qualitiesofaFashionDesigner,FashionStylist,FashionJournalist,FashionMerchandiser,FashionDirector.

TextBook(s)

1. FashionSketchBook–BinaAbling, Fair ChildPublications,NewYorkWardrobe,1988.
2. ArtandFashion inClothingSelection– McJimseyandHarriet,IowaStateUniversity,Press,Jowa,1973.

ReferenceBooks

1. FashionFromConceptToConsumer– FringsGiniStephens,PearsonEducation,US,1998.
2. InsidetheFashionBusiness–KittyG.Dickerson,PearsonEducation,US, 2007.

RelatedOnlineContents[MOOC,SWAYAM,NPTEL,Websitesetc.]

- 1 <https://www.apparesearch.com/terms/index.htm>
- 2 <https://www.instyle.com/fashion>
- 3 <https://prezi.com/1tlwgnhviqs-/fashion-elements-and-principles-of-design/>

CORE PRACTICAL – IFASHION DESIGNING PRACTICAL

Course Objectives:

The main objectives of this course are to:

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

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

CO1 Develop Prang colour chart, value and intensity chart

CO2 Illustrate human figures for a child, woman and man

CO3 Sketch garment designs following the various elements of design

CO4 Apply the principles of design and colour harmonies in garment

CO5 Create garment designs for various seasons

1. Prepare the following Charts

- Prang colour chart,
- Value chart
- Intensity chart

2. Illustrate Human Figure for the Following Heads

- Child-6 head
- Women-8 head, 10 head and 12 head
- Man- 10 head

3. Illustrate Garment Designs for the Elements of Design (3 each)

- Line
- Texture
- Shape

4. Illustrate Garment Designs for the Principles of Design

- Balance (Formal and Informal)
- Harmony
- Emphasis
- Proportion
- Rhythm (by Repetition, Gradation and Line Movement)

5. Illustrate the Colour Harmony in Dress Design

- Monochromatic
- Analogous
- Complimentary
- Double complementary
- Split complementary
- Triad

- Neutral

6. Create Garments for the Following Seasons

- Summer
- Winter
- Autumn
- Spring

Text Book(s)

1. Fashion Sketch Book, Bina Abling, Fair Child Publications, New York Wardrobe, 1988.
2. Illustrating Fashion, Kathryn McKelvey and Janine Munslow, Blackwell Science, 1997.

Reference Books

1. Art and Fashion in Clothing Selection, McJimsey and Harriet, Iowa State University Press, Iowa, 1973.

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

- 1 <https://www.idrawfashion.com/>
- 2 <https://www.fashionistasketch.com/drawing-faces-fashion-illustration/3>
- 3 <https://in.pinterest.com/pin/458804280762797371>

ALLIED – II

PAPER I PRINCIPLES OF PATTERN MAKING

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. Draping – preparation of bodice form steps in draping basic bodice front bodice 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 striped 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.

Reference;

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

Pattern Grading for women's clothing, The technology of sizing –

Gerry Cooklin, Blackwell Science Ltd (1990) Zarapker system of cutting – zarapker. K.r., Navneet publications Ltd

ALLIED PRACTICAL—II GARMENT CONSTRUCTION—I

Course Objectives:

The main objectives of this course are to:

1. Design garments for children, women and men
2. Impart skills in pattern drafting
3. Construct garments by sewing

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Design garments for child, women and men
CO2 Develop patterns for child, women and men using drafting method
CO3 Construct garments by sewing
CO4 Discover new techniques in pattern making and garment construction
CO5 Select the necessary tools needed for sewing

1. Design, Draft and Construct the Following Garments for a Child

- Bib
- Jabla
- Knicker

2. Design, Draft and Construct the Following Garments for a Women

- Saree Petticoat
- Salwar/Churidhar
- Kameez

3. Design, Draft and Construct the Following Garments for a Man

- Bermuda
- T-shirt

Text Book(s)

- 1 Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai, 1986.
- 2 Zarapker System of Cutting-Zarapker. K Ltd. R, Navneet Publications, 1994.

Reference Books

- 1 Cutting and tailoring Course
Gayatri Verma & Kapil Dev, Computech Publications, 2009.

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

- 1 <http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827>
- 2 <https://www.youtube.com/watch?v=nI-ShbmnuVg>
- 3 <https://www.youtube.com/watch?v=LuazkYL0J3A>

SEMESTER –III
CORE PAPER – III FIBER TO FABRIC

Course Objectives:

The main objectives of this course are to:

1. Impart knowledge on the manufacturing process of fabric from the fiber
2. Teach the methods and techniques involved in the fibre, yarn and fabric manufacturing process
3. Know the trends and technologies followed in the textile industry

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Classify fibers and understand the properties of fibers
- CO2 Discover the manufacturing process of fiber
- CO3 Understand the yarn types and its manufacturing process
- CO4 Describe the weaving method and its characteristic features
- CO5 Appraise the application and uses of non-woven fabrics

Unit:1 Fiber Classification and Properties

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

Unit:2 Process Sequence in Manufacturing Fibers

Manufacturing process, properties and uses of natural fibres – cotton, linen, Jute, silk, wool, hair fibers, man-made fibres – Viscose rayon, nylon, polyester, acrylic.

Unit:3 Spinning Process

Spinning –

Definition and classification; Chemical and mechanical spinning; blending, opening, cleaning, doubling, carding, combing, drawing, roving, spinning.

Yarn – Definition and classification –

simple and fancy yarns. Manufacturing Process of sewing threads – cotton and synthetic.

Unit:4 Weaving Mechanism

Weaving mechanism, parts and functions of a simple loom; basic process of dobby and jacquard, Classification of looms Salient features of automatic looms; Shuttle looms, its advantages – Types of shuttleless looms – Rapier – Projectile – Airjet – Waterjet.

Unit:5 NonWovenFabrics

Non-Wovens-

felted, fusing, bonding, lamination, netting, braiding, tatting and crocheting. Application and uses of Non-wovens

TextBook(s)

- 1 Textiles–Fibre to fabric,
Corbmann B.P, International student's edition, McGraw Hill. Book company, Singapore, 1985.
- 2 Textile fabrics and their Selection–
Isabel Barnum Wingate, Published by Prentice-Hall, 1964.
- 3 Fundamentals of Textiles and Their care, Susheeladantyaagi, Orient
Longman Private limited, Fifth edition, 1996.

Reference Books

- 1 Textile Mechanisms in Spinning and Weaving Machines,
Ganapathy Nagarajan, Woodhead Publishing India in Textiles, 2014.
- 2 Mechanisms of Flat Weaving Technology, Elena V Chepelyuk, Palitha Bandara and
Valeriy V Choogin; Woodhead Publishing series in Textiles, 2013.
- 3 Handbook of fiber
science and Technology, Menachem Lewin and Stephen B Sello, Marcel Dekker, Inc,
New York, 1984.
- 4

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

- 1 <http://textilefashionstudy.com>
- 2 <https://fashion2apparel.blogspot.com/2017/07/classification-loom.html>
- 3 <https://www.inda.org/about-nonwovens/>

CORE PRACTICAL – III

FIBER TO FABRIC PRACTICAL

Course Objectives:

The main objectives of this course are to:

1. Identify the type of fibers
2. Test the yarn count and fabric count
3. Test the fabric for the following parameters—twist, course length, weight, shrinkage, color fastness and absorbency

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Distinguish the type of fiber by microscope, flame test and chemical tests
- CO2 Determine the count of the yarn and fabric
- CO3 Test the fabric for fabric weight and course length of the fabric
- CO4 Evaluate the color fastness and shrinkage of fabric
- CO5 Experiment with the absorbency of fabric

1. Identification of Textile fibers

- Microscopic Method
- Flame test.
- Chemical test

2. Testing of Yarn and Fibers

- Yarn Count using Wrap Reel
- Yarn Count using Besley's Balance
- Twist of the Yarn

3. Testing of Fabric

- Fabric Weight
- Fabric Count by Ravelling Method
- Fabric Count with Pick Glass
- Course Length and Loop length of Knitted Fabric
- Colour Fastness to Washing
- Tests of Shrinkage
- Tests of Absorbency

Text Book(s)

- 1 Textiles—Fiber to fabric, Corbmann B.P, International students edition, McGraw Hill. Book company, Singapore, 1985.
- 2 Textile fabrics and their Selection— Isabel Barnum Wingate, Published by Prentice-Hall, 1964.

ReferenceBooks

- 1 IdentificationofTextileFibers1stEditionbyMaxM.Houck,WoodheadPublishinginTextiles,Cambridge,New delhi,2009.
- 2 Textilescience,Gohi,CBSPublishersandDistributors,India,2005.

RelatedOnlineContents[MOOC,SWAYAM,NPTEL, Websitesetc.]

- 1 <https://textilelearners.com/textile-fibers-identification-process/>
- 2 <https://www.textilesphere.com/2020/04/identification-of-textile-fibers.html>

ALLIED III COSTUMES AND TEXTILES OF INDIA

Course Objectives:

The main objectives of this course are to:

1. Impart knowledge and understanding of the diverse and valuable traditional Indian textiles.
2. Appreciate the various styles of traditional Indian costumes
3. Value the beauty and intricacy of the Indian Jewellery

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Discover the beginning and origin of costumes
- CO2 Recognize the dyed and printed textiles of India
- CO3 Compare and contrast the various costumes of India
- CO4 Appraise the jewellery of India
- CO5 Value the traditional embroideries of India

Unit:1 Origin and Growth of Costume

Beginning and growth of Costume - Painting, Cutting and Tattooing. Ancient costumes – Indus valley civilization, Vedic period, Maurya period, Mughal period. Costumes of India - pre and post independence era

Unit:2 Dyed and Printed Textiles of India

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:3 Traditional Costumes of India

Traditional Costume of different States of India - Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, Assam, Orissa, West Bengal, Maharashtra, Rajasthan, Uttar Pradesh, Jammu and Kashmir, Gujarat.

Unit:4 Indian Jewellery

Indian Jewellery – Jewellery used in the period of Indus valley civilization, Mauryan period, the Pallava and Chola Period, Symbolic Jewellery of South India, Mughal period. Temple Jewellery of South India, Tribal Jewellery

Unit:5 Traditional Embroideries of India

Traditional embroideries of India – Origin ,Embroidery stitches used – embroidery of Kashmir, Phulkari of Punjab, Gujarat – Kutch and Kathiawar, embroidery of Rajasthan, Kasuti of Karnataka, Chicken work of Lucknow, Kantha of Bengal.

Text Book(s)

- 1 The costumes and textiles of India – Jamila Brij Bhushan, DB Taraporevala Sons & Co, Bombay, 1958.
- 2 Indian Costume – G.S. Ghurye, Popular Prakashan Pvt Ltd, India, 1967.
- 3 Indian Jewellery – M.L Nigam, Lustre Press Pvt Ltd, India, 1999.
- 4 Traditional Embroideries of India – Shailaja D. Naik, APH Publishing, India, 1996.

Reference Books

- 1 Costumes of India – Dorris Flyn, Oxford & IBH Publishing Co, Delhi, 1971.
- 2 Costumes of India and Pakistan – Das S.N, DB Taraporevala Sons and Co, Bombay, 1956.

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

- 1 <https://www.youtube.com/watch?v=7HXVXieq7pM>
- 2 <https://www.craftsvilla.com/blog/famous-indian-embroidery-styles>
- 3 <https://www.culturalindia.net/jewellery/types/meenakari.html>

ALLIED PRACTICAL – III

GARMENT CONSTRUCTION II

Course Objectives:

The main objectives of this course are to:

1. Design garments for children, women and men
2. Impart skills in pattern drafting
3. Construct garments by sewing

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Design garments for child, women and men
- CO2 Develop patterns for child, women and men using drafting method
- CO3 Construct garments by sewing
- CO4 Discover new techniques in pattern making and garment construction
- CO5 Select the necessary tools needed for sewing

1. Design, Draft and construct the following garments for a Child

- Babasuit
- A-line Frock
- Summer Frock

2. Design, Draft and construct the following garments for Women

- Ladies Tops
- Wrap around skirt
- Nightie

3. Design, Draft and construct the following garments for Men

- Nehru Kurta
- Pyjama
- Slack Shirt

Text Book(s)

- 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, India, 2011.

Reference Books

- 1 Cutting and sewing theory, Gayatri Verma, Kapil Dev, Computech Publication Ltd, India, 2019.
- 2 Pattern cutting and Making up, the professional approach, Martin M. Shoben and Janet P. Ward, Routledge Taylor and Francis Group, London and New York, Revised edition, 2011.

RelatedOnlineContents[MOOC,SWAYAM,NPTEL,Websitesetc.]

- 1 <http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827>
- 2 <https://www.youtube.com/watch?v=FsD-Pc9WPm0>
- 3 <https://www.youtube.com/watch?v=rJf5Jlpt8j4>

SKILL BASED SUBJECT INDUSTRIAL GARMENT PRODUCTION

Course Objectives:

The main objectives of this course are to:

1. Gain knowledge on the industrial practices in all the stages of garment manufacturing
2. Familiarize with the techniques and technology adopted in the garment industry
3. Gain familiarity with the federal standards of stitch and seam classification

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Understand the stitching mechanism
- CO2 Relate to the cutting and spreading methods in industries
- CO3 Connect to the industrial marking and pressing methods
- CO4 Analyse the type of sewing machines and its functions
- CO5 Classify stitches and seams according to the federal standards

Unit:1 Stitching Mechanism

Stitching mechanism- Needles, bobbin and bobbin case, bobbin winding, loops and loop spreader, upper and lower threading, auxiliary hooks, throat plates, take ups, tension discs-upper and lower thread tension, stitching auxiliaries, pressure foot and its types, Feed mechanisms - drop feed, differential feed, needle feed, compound feed, unison feed, puller feed..

Unit:2 Cutting and Spreading Methods

Spreading- Types of spread and its quality, parts and functions of spreading equipment, spreading methods.
Cutting equipment – Parts and functions of Straight knife cutting machine, rotary cutting machine, band knife cutting machine, die cutters.

Unit:3 Marking and Pressing Methods

Marking methods, positioning marking types of markers, efficiency of a marker plan, requirement of marker planning.

Pressing – purpose, pressing equipment and methods – iron, steam press, steam air finisher, steam tunnel, special types – pleating, permanent

Unit:4 Sewing Machineries

Sewing Machineries - Classification of sewing machines, parts and functions of Single Needle lock stitch machine, over lock machine, bar tacking machine, button hole machine, button fixing machine, blind stitching machine, fabric examining machine. Special attachments, care and maintenance of sewing machines, Common problems and remedies

Unit:5 Packaging,SewingThreads,StitchesandSeams

Garment Packaging – Types of package forms Sewing threads- types, essential qualities of sewing thread Federal standards for stitch and stitch classification Federal standards for seam and seam classification.

TextBook(s)

- 1 The Technology of Clothing Manufacture – Harold Carr and Barbara Latham, Blackwell Science, 1994.
- 2 Apparel Manufacturing Handbook: Analysis, Principles and Practice 2nd Edition – Jacob Solinger, Bobbin Blenheim Media Corp, 1988.

ReferenceBooks

- 1 Reader's Digest Sewing Guide, Complete Guide to Sewing 13th Edition, The Reader's Digest Association Inc, Pleasantville, 1997.
- 2 A Complete Guide for Sewing – Coles M Sew, Heinemann Professional Publishing, Singapore, 1977.

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

- 1 <https://clothingindustry.blogspot.com/2018/04/packaging-process-garment-industry.html>
- 2 <https://www.youtube.com/watch?v=palmFFnMT1E>
- 3 https://www.youtube.com/watch?v=67K0RMJVB_U
- 4 <https://www.youtube.com/watch?v=HIBcn9Igir>
- 5 <https://www.youtube.com/watch?v=QOofEoJQyro>

SEMESTER III

NON MAJOR ELECTIVE - APPAREL DESIGNING

Course Objectives:

The main objectives of this course are to:

4. Teach the basics of the functions of the sewing machine and the essential tools
5. Explain the techniques of the pattern making, grading and alteration
6. Understand the types of sleeves, yokes and collars

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Describe the functions of a sewing machine and the tools needed for sewing
CO2 Compare the methods of preparing pattern
- CO3 Appraise the types of sleeve
- CO4 Analyze the types of collars and yokes
- CO5 Appraise the techniques in pattern layout, alteration and grading

UNIT-I

Parts and functions of a single needle machine, essential tools – cutting tools, measuring tools, marking tools, general tools, pressing tools,

UNIT-II

Seams and seam finishes – types, working of seams and seam finishes
Hems – types, stitches used. Fullness – definition, types. Darts, tucks, pleats, .

UNIT-III

Facings – bias facing, shaped facing and decorative facing. Binding – single bias binding, double bias binding. Sleeves – definition, types, set-in-sleeves – plain sleeve, puff sleeve, bishop sleeve, bell, circular. Modified armhole – squared armhole, cap sleeve and Magyar sleeve

UNIT-IV

Yokes – types, simple yoke, yoke with fullness within the yoke, yokes supporting releasing fullness. Pockets – types – patch pocket, bound pocket, pocket in a seam.

UNIT-V

Collars – definitions, types, peter pan, scalloped, puritan, square, rippled, full shirt collar, Chinese, shawl collar

REFERENCE:

1. Practical Clothing Construction – Part I and II, Mary Mathews, Cosmic Press, Chennai (1986)
2. The Complete Book of Sewing – Dorling Kindersley Limited, London (1986)
3. Sewing and Knitting – A Reader's Digest, step-by-step guide, Reader's Digest Pvt Ltd, Australia
4. Zarapker system of cutting – Zarapker. K.R., Navneet publications Ltd, 1994.

ReferenceBooks

1. PatternGradingforWomen'sclothing, Thetechnologyofsizing, GerryCooklin, Blackwel
lScienceLtd, 1990.
2. SewingandKnitting–AReadersDigest, Step-by-
StepGuide, ReadersDigestPvtLtd, Australia, 1993.

RelatedOnlineContents[MOOC,SWAYAM,NPTEL,Websitesetc.]

1. <http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827>
2. <https://fashion2apparel.blogspot.com/2017/03/pattern-grading-methods-apparel.html>
3. <https://textilelearner.blogspot.com/2014/10/a-focus-on-garments-fitting.html>
4. <https://www.fibre2fashion.com/industry-article/5658/basics-of-pattern-making>

SEMESTER – IV CORE PAPER IV FABRIC STRUCTURE AND DESIGN

Course Objectives:

The main objectives of this course are to:

1. To learn the elements of woven design
2. To study the different types of weaves
3. To understand the draft and lifting plan

Expected Course Outcomes:

On the successful completion of the course, student will be able:

- CO1 To classify different types of weaves
- CO2 To draw the design, draft and peg plan of weaves.
- CO3 To differentiate between different type of weaves
- CO4 To construct different types of weaves
- CO5 Apply the methods of fabric representation

Unit:1 Elements of Woven Design

Elements of woven design, Methods of fabric representation, Draft and lifting plan, Construction of elementary weaves – plain, warp rib, weft rib, twill, modification of twills, satin and sateen weaves – their derivatives

Unit:2 Types of Weaves

Ordinary and Brighton honeycomb, its modification, Huckaback and its modifications, Crepe weaves, Mockleno

Unit:3 Figured Fabrics

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

Unit:4 Pile Fabrics

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:5 Double Cloth

Double cloth – Classification, Self stitched – Face to back, Back to face, Both. Centre stitched – warp and weft. Interchanging double cloth.

Text Book(s)

- 1 Gokarneshan N, Fabric Structure and Design, New Age International Publishers Ltd, New Delhi, 2004.
- 2 Grosickli Z Newness, Watson's Advanced Textile Design, Butter Worths, London, 1989.

ReferenceBooks

- 1 CorbmanBP, Textiles–Fibre to Fabric, International Students Edition, Mc.GrawHillbookCo, Singapore, 1985

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

https://textilelearner.blogspot.com/2011/06/weaving-weaving-mechanism_643<https://textilelearner.blogspot.com/2012/07/basic-woven-fabric-structure-plain><http://textilefashionstudy.com/category/fabric-manufacturing-technology-2><http://www.warporweft.com/types-of-looms>

CORE PRACTICAL-IV FABRIC STRUCTURE AND DESIGN PRACTICAL

Course Objectives:

The main objectives of this course are:

1. To identify the different types of weaves
2. To analyse the fabric structure
3. To understand the woven fabrics design

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Draw the design, draft and peg plan of weaves.
- CO2 Explain fabric structure
- CO3 Understand the weaving components
- CO4 Analyse the design aspects in the weaving pattern
- CO5 Evaluate the fabric according to weaving

Analyse the Fabric Structures

- Plain weave and its derivatives
- Warp rib
- Weft rib
- Twill Weave
- Right hand twill
- Left hand twill
- Satin and Sateen
- Honey Comb Weave
- Hucka Buck Weave
- Extra warp figuring
- Extra weft figuring

Text Book(s)

- 1 Gokarneshan N, Fabric Structure and Design, New Age International Publishers Ltd, New Delhi, 2004.
- 2 Grosickli Z Newness, Watson's Advanced Textile Design, Butter Worths, London, 1989.

Reference Books

- 1 Corbman BP, Textiles – Fibre to Fabric, International Students Edition, Mc. Graw Hill book Co, Singapore, 1985.

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

- 1 <https://textilelearner.blogspot.com/2012/07/what-is-fabric-warp-weft-fabric.html>
- 2 <http://textilefashionstudy.com/category/fabric-manufacturing-technology-2>

- 3 <https://feltmagnet.com/textiles-sewing/How-To-Analyze-A-Woven-Fabric>
- 4 <https://www.textileschool.com/242/weaving-calculations/>

ALLIED IV THE BUSINESS OF FASHION

Course Objectives:

The main objectives of this course are to:

1. Gain understanding of fashion designer at the national and international level
2. Impart knowledge on new product development, sales promotion, retailing and pricing
3. Move towards sustainable fashion

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Describe the factors influencing fashion changes
- CO2 Weigh the contributions of the fashion designers nationally and internationally
- CO3 Understand the steps involved in new product development and sales promotion
- CO4 Analyze the scope and functions of retailing and pricing
- CO5 Evaluate the environmental pollution created by fashion product and move towards sustainable fashion

Unit:1 World of Fashion- An Overview

Factors influencing fashion changes – Accelerating and Decelerating factors
Understanding Fashion designer – types – classicist, idealist, influenced, realist, thinking poet.
Minimalists, Village India, Studio Line. World Fashion Centers – Milan, Paris, London and New York

Unit:2 Legendary Fashion Designers

Study of International Fashion Designers of the World – Yves Saint Laurent, Valentino, Pierre Cardin, Ralph Lauren, Karl Lagerfeld, Donna Karen, Giorgio Armani, Coco Chanel, Calvin Klein, Christian Dior. An overview of Indian Fashion Designers – Manish Malhotra, Manish Arora, Ritu Beri, Tarun Tahiliani, Rohit Bal, Wendell Rodricks, JJ Valaya.

Unit:3 Fashion Products and Promotion

The fashion industry and new product development; product mix and range planning. Fashion and Seasons. Fashion Promotion – Fashion Communication; Fashion Advertising and Publicity; Personal Selling – importance and steps involved; Fashion Shows – types and steps involved in organizing a show; Sales promotion methods/strategies

Unit:4 Fashion Retailing

Fashion Retailing - Scope and functions, Types of Stores, Challenges for fashion retail in India, E-retailing – growth and development, Major players of fashion goods online. Pricing policies and strategies for apparel products, Functions and factors Influencing pricing, pricing strategies for new products, methods of setting prices

Unit:5 SustainableFashion

Sustainable Fashion – meaning and significance; Environmental concerns related to fashion; Linear fashion and circular fashion; 4R's in sustainability – Repair, recycle, reuse and reduce. Moving towards sustainable fashion - Eco fashion, Slow fashion; Environmental impact of fast fashion

TextBook(s)

- 1 Drake et al, Retail Fashion: Promotion and Advertising, Macmillan Publication Company, New York, 1992.
- 2 Gini Stephens Frings, Fashion – From Concept to Consumer, 6th edition, Prentice Hall, 1999.

Reference Books

- 1 Leslie Davis Burnset al,
The Business of Fashion: Designing, Manufacturing and Marketing, 4th Edition, Bloomsbury Academic publisher, 2011

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

- 1 <https://247wallst.com/special-report/2018/10/01/the-30-most-influential-fashion-designers-of-all-time/8/>
- 2 <https://www.reviewxp.com/blog/top-fashion-designers/>
- 3 https://en.wikipedia.org/wiki/Fashion_capital
- 4 <https://www.fibre2fashion.com/>
- 5 <http://www.technopak.com/Files/fashion-retail-scenario-in-india.pdf>
- 6 https://en.wikipedia.org/wiki/Sustainable_fashion
- 7 <https://fashionunited.uk/news/fashion/re-defining-sustainability-repair-recycle-reuse-and-reduce/2016052520528>
- 8 <https://get-green-now.com/environmental-impact-fast-fashion/>

ALLIED PRACTICAL – IV
GARMENT CONSTRUCTION – III

Course Objectives:

The main objectives of this course are to:

1. Design garments for children, women and men
2. Impart skills in pattern drafting
3. Construct garments by sewing

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Design garments for child, women and men
- CO2 Develop patterns for child, women and men using drafting method
- CO3 Construct garments by sewing
- CO4 Discover new techniques in pattern making and garment construction
- CO5 Select the necessary tools needed for sewing

1. Design, Draft and Construct the Following Garments for a Child

- Frock – Party wear
- Midi and Top

2. Design, Draft and Construct the Following Garments for a Woman

- Blouse
- Lehanga
- Maxi/Gown
- Ladies Pant

3. Design, Draft and Construct the Following Garments for a Man

- SB Vest
- Pant (full length)

Text Book(s)

- 1 Zarapker K. R., Zarapker System of Cutting, Navneet Publications (India) Ltd, Mumbai, 2012
- 2 Winifred Aldrich, Metric Pattern Cutting for Women's Wear, 5th Edition, Blackwell Publishing, 2015
- 3 Winifred Aldrich, Metric Pattern Cutting for Men's Wear, 5th Edition, Blackwell Publishing, 2011

ReferenceBooks

- 1 MyoungokKimandInjooKim,PatternMakingforMenswear:ClassicctoContemporary,SpiEd
ition,FairchildBooksPublishers,2014.
- 2 HelenJArmstrong,PatternMakingforFashionDesign, 5thedition,
PearsonPublisher,2014.
- 3 GarmentConstruction:ACompleteCourseonMakingClothingforFitandFashion(Illust
ratedGuide toSewing)byPegCouch,Kindle Edition,2015

Related Online Contents[MOOC,SWAYAM,NPTEL,Websitesetc.]

- 1 <https://www.patternsonline.com/Default.aspx>
- 2 <https://sewguide.com/>

SKILLBASED SUBJECT TEXT

ILE FINISHING

Course Objectives:

The main objectives of this course are to:

- 1 Know Textile Fabrics
- 2 Impart Knowledge on Basic finishes
- 3 Know recent trends in finishing

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Know finishing
- CO2 Identify finishes
- CO3 Differentiate various methods of finishes
- CO4 Know special purpose finishes
- CO5 perform various techniques of finishes

UNIT I

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

UNIT II

Basic finishes – singeing, mercerizing, Calendering, tentering, bleaching. Luster – glazed, moiré, sizing, weighting; Texture – sheared, brushed, embossed, plisse, flocked, embroidered, napped.

UNIT III

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

UNIT IV

Special purpose finishes – methods and applications – silicone finish, denim finish – stonewash and enzymewash; fragrance finish, UV protection finish, antibacterial finish.

UNIT V

Recent trends in finishing – microencapsulation techniques, nanofinishes. Treatment of textile effluents.

References:

1. Understanding Textiles 6th edition, Billie J. Collier, Phyllis G. Tortora, Prentice Hall Inc., New Jersey, 2001
2. Textiles by Sara J. Kadolph and Anna L. Langford, 2000
3. Textile Finishing by V. A. Shenai.
4. Textile Finishing by R. S. Prayag.
5. Functional Finishes by Lewin And Sello.
6. Technology of Finishing by J. T. Marsh.

NON MAJOR ELECTIVE TEXTILE PRINTING

Course Objectives:

The main objectives of this course are to:

- 1 Know Printing technology
- 2 Impart Knowledge on variety of printing
- 3 Know various methods of printing

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Know difference between printing and dyeing
- CO2 Know to prepare fabric
- CO3 Do Screen printing
- CO4 Know Equipment required for printing
- CO5 Know various Printing methods

UNIT-I

Printing – Introduction to printing , differences between printing and dyeing , preparation of fabric for printing – cotton, linen, polyester, wool and silk, methods of printing, preparation of printing paste, selection of thickening agents.

UNIT-II

Direct printing : Block printing – Brief History , Preparation of design , Blocks, table, print paste and printing process Stencil printing – Brief history , preparation of fabric , stencils (For one or more colour) Materials used for preparing stencils, process involved and techniques used.

UNIT-III

Screen printing – brief history , Flat screen and Rotary screen printing , Preparation of screen , print paste , screen printing process, Discharge printing – chemicals used, process involved.

UNIT-IV

Resist printing: Brief history, Batik printing wax used, Equipments required, process sequence and techniques used. Tie and dye – Brief history, Equipments required, process sequence and techniques used.

UNIT-V

Other printing methods: Inkjet printing, Heat transfer printing, photo printing.

References:

1. Textiles – Ninth edition, Sara J Radolph and Anna L Langford, Prentice Hall, New Jersey (2002).
2. Textile processing – J L Smith, Abhishek publications, Chandigarh (2003).
3. Textile Chemistry – Peters R H, Voll, & II, Textile Institute Manchester (1970)
4. Beginners Guide to fabric dyeing and printing – Stuart & Robinson, Technical books, London (1982).
5. Thickening agents and Emulsion thickenings in textile printing – Herbert Barthm, New Delhi (1994).

SEMESTER-V
CORE PAPER-V KNITTING

Course Objectives:

The main objectives of this course are to:

1. Familiarize with the basics of knitting process
2. Impart knowledge on the warp and weft knitting techniques
3. To know the recent trends and technologies adopted in the industry

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Understand the basic knitting process and the functions of a knitting machine
CO2 Discover the weft knitting process and machineries used
CO3 Discover the warp knitting process and machineries used
CO4 Appraise the recent technology in the knitting industry
CO5 Articulate the significant role played by the knitting industry locally and nationally

Unit:1 Knitting Overview

Knitting – Definition, classification and history, characteristics of knitted goods. General terms and principles of knitting technology, machine knitting, parts of machine, knitted loop structure, stitch density

Unit:2 Principles of Weft Knitting Technology

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:3 Principles of Warp Knitting Technology

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:4 Seamless Knitting & Knitting Care

Seamless Knitting – Applications, advantages, and limitations.
Care and maintenance of knitted material - washing, drying, ironing, storing. Common defects that occur in knitted fabric production.

Unit:5 Knitting Industry and Market

Knitting Industry in India – growth and development. Significance of knitwear industry in

Tirupur.Knitwearmarket–Presentandfuturetrends.DyeingofKnitFabrics

TextBook(s)

- 1 KnittingManufactureTechnology-Anbumani,NewAgeInternational,Chennai,2006
- 2 KnittingandApparelTechnology,S.S.M.I.TCo-operativeSociety. 2005
- 3 KnittingTechnology,DavidJ.Spencer,WoodheadPublishingLtd.,CambridgeEngland,2002

ReferenceBooks

- 1 KnittingTechnology, DBAjgaonker,UniversalPublishingCorporation,1998
- 2 Warpknitfabricconstruction:fromstitchformationtostitchconstruction,Wilkens,C.,Heusenstamm,Germany:U.WilkensVerlag,1995.
- 3 FlatKnitting,MeisenbachBamberg,Samuel.R,Germany,1991

RelatedOnlineContents[MOOC,SWAYAM,NPTEL,Websitesetc.]

- 1 <https://fashion2apparel.blogspot.com/2017/02/seamless-garments-advantages.html>
- 2 <https://www.indiaretailing.com/2018/06/12/fashion/indian-knitwear-market-present-and-the-future-trends/>
- 3 <https://www.fibre2fashion.com/industry-article/64/overview-of-tirupur-knitwear-industry>
- 4 <https://www.fibre2fashion.com/industry-article/7047/seamless-garment-technology>
- 5 <https://textilelearner.blogspot.com/2013/01/faultsdefects-in-knitted-fabrics.html>

CORE PRACTICAL – V-KNITTING & BASIC DRAPING PRACTICAL

Course Objectives:

The main objectives of this course are to:

1. Identify the loop structure of the fabric
2. Identify different types of knitted fabric sample
3. Identify fabric defects, its cause and work on the remedies
4. Teach the basics of preparing the body forms and fabrics for draping
5. Create patterns for basic bodice and skirts using draping method

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Identify the loop structure of the fabric
- CO2 Find out the type of knitted fabric sample.
- CO3 Classify the different knit structures.
- CO4 Deduct knitting samples by unravel method and graphic representation
- CO5 Create draped patterns for types of yokes and collars

1. Identify the Given Fabric Sample Using Unravel and Graphic Representation Method

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

2. Analyse the Defects

- Vertical and horizontal lines
- Holes and cuttings
- Distorted

3. Preparation of Body Forms

Mark the Chest Line with Style Tape

Mark the Empire/Under Chest Line with Style Tape Mark the Waist line with Style Tape Mark the Hip Line with Style Tape

4. Preparation of Fabric

Remove creases by ironing the fabric Straighten the fabric

5. **DrapetheFollowingPatterns**
DrapingofBodiceFrontDrapingofBodiceBackDra
pingofSkirt
6. **DrapetheFollowingYokes**
SimpleYoke
YokewithFullnesswithintheYokeShirtYokeMid
riffYoke
7. **DrapetheFollowingCollars**
PeterPanCollar
MandarinCollar/ShirtCollarShawlCollar/ConvertibleCollar

TextBook(s)

- 1 KnittingManufactureTechnology, Anbumani,NewAgeInternational,Chennai,2006
- 2 KnittingandAppareltechnology,S.S.M.I.TCo-operativeSociety.2005
3. DrapingforApparelDesign,3rdEdition-
HelenJosephanandArmstrong,BloomsburyAcademic,2013
4. TheArtofFashionDraping,ConnieAmadedandCrawford,BloomsburyAcad
emic,2018

ReferenceBooks

- 1 KnittingTechnology,DBAjgaonker,UniversalPublishingCorporation,1998
2. TheArtofFashionDraping,ConnieCrawford,BloomsburyPublishingIndiaPrivateLimit
ed,2007
3. DrapingforFashionDesign,HildeJaffe,PrenticeHall,2000.
4. Draping forApparelDesign,HelenJosephanand
Armstrong,BloomsburyAcademic,2008.
5. DrapingforFashionDesign, HildeJaffeandNurieRelis, Pearson/PrenticeHall,2005.

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<https://textilelearner.blogspot.com/2013/01/faultsdefects-in-knitted-fabrics.html>
<https://www.youtube.com/watch?v=hAvjXU9xrOM><https://www.youtube.com/watch?v=BhG9Sp3UutI><https://www.moodfabrics.com/blog/intro-to-draping-dress-form-muslin-basics/><https://fitnyc.libguides.com/fashiondesign/draping><https://www.youtube.com/watch?v=-Hriguv4RA>

CORE THEORY
VIBUSINESSFINANCE

Course Objectives:

The main objectives of this course are to:

1. Enable student to understand the financial aspects of a Business
2. Make students prepare financial plan with a clear understanding of expenses and earnings
3. Understand the principles of equity shares, bonds, debentures and fixed deposits

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Understand the scope and functions of Finance K1
- CO2 Work on a financial Plan K4
- CO3 Work on cost theory and earning theory K4
- CO4 Calculate the cost of individual and composite cost of capitals K3
- CO5 Aware of the advantages and limitations of Equity shares, bonds, debentures and deposits

Unit:1

Business Finance: Introduction – Meaning – Concepts – Scope – Functions of finance, Traditional and modern concepts – content of modern finance functions.

Unit:2

Financial Plan: Meaning – Concept – objectives – Types – Steps – Significance – Fundamentals.

Unit:3

Capitalisation – Bases of Capitalisation – Cost Theory – Earning Theory – Over Capitalisation – Under Capitalisation – Symptoms – causes – remedies – Watered Stock Vs. Over Capitalisation.

Unit:4

Capital Structure – Cardinal Principles of capital structure – Trading on equity – Cost of capital – concept – Importance – Calculation of Individual and composite cost of capital.

Unit:5

Sources and forms of Finance: Equity Shares, Preference Share, Bonds, Debentures and fixed deposits – features – advantages and disadvantages.

Text Book(s)

1 EssentialsofBusinessFinance, R.M.SriVatsava,
HimalayaPublishingHouse,20162FinancialManagement–
SaravanaVel,KalyaniPublishers,NewDelhi,2004

ReferenceBooks

- 1 Financial Management–B.Y.Pandey, TataMcGrawHill, NewDelhi, 2000.
- 2 Financial Management-An Analytical and
ConceptualApproach,S.C.Kuchhal,ChitanyaPublishingHouse,1982.
- 3 FinancialManagement–M.Y.KhanandJain,SultanChand&Sons, NewDelhi,2018

Related OnlineContents[MOOC,SWAYAM,NPTEL,Websitesetc.]

- 1 <https://ncert.nic.in/textbook/pdf/kebs108.pdf>
- 2 <https://www.coursera.org/specializations/financial-management>
- 3 <https://talentedge.com/articles/role-financial-management-organization>

COREPRACTICAL–VICAD

PRACTICAL –I

CourseObjectives

The main objectives of this course are to:

1. Enable the student to design garment using computers
2. Try various colour combinations and texture effects
3. Create and manipulate fashion figures for various garment designs

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Understand and practice the tools and techniques of CAD
- CO2 Apply the skills in area of garment designing
- CO3 Develop various colours and textures in computers
- CO4 Create garment designs for child, men and women with CAD
- CO5 Create Jewellery designs using CAD

1. Creating Small Designs/Motifs (2each)

- Designs for Handkerchief
- Neckline Designs
- Embroidery Designs
- Chest Prints for T-shirts

2. Create the Following Designs for a Child (2each)

- Jabla and Knicker
- Baba Suit
- Frock

3. Create the Following Designs for a Woman (2each)

- Gown/Maxi
- Salwar Kameez
- Midi and Tops
- Lehngas

4. Create the Following Designs for a Man (2each)

- SB Vest
- T-Shirt with Bermuda
- Shirt and Pant
- Kurta Pyjama

5. Create the Following Ornaments and Accessories

- Ornaments – Set of earring, bangle/bracelet, finger ring and chain
- Accessories – Set of Handbag, Hat, Hairband and footwear

TextBook(s)

- 1 FashionDesignDrawing&Prensation, IrelandPatrickJohn,BT BatsfordLtd,2006.
- 2 FashionDesignIllustration:Children,IrelandPatrickJohn,BTBatsfordLtd,2003.

ReferenceBooks

- 1 FashionSketchBook,BinaAbling, Fair ChildPublication,NewYork,2006.

RelatedOnlineContents[MOOC,SWAYAM,NPTEL,Websitesetc.]

- 1 <https://www.youtube.com/watch?v=iX7O4fNQijA>
- 2 <https://www.youtube.com/watch?v=8pmgi7q3Gbo>
- 3 <https://www.youtube.com/watch?v=x8BsIME4gi4>

CORE THEORY VII APPAREL RETAILING

Course Objectives:

The main objectives of this course are to:

1. Provide the knowledge about the basics of retailing.
2. Help the student to understand the concepts and various retailing strategies.
3. Enhance the student's knowledge about retailing concepts.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Understand about the scope, types and functions of retailing
- CO2 Understand about the various retailing strategies
- CO3 Understand about the retail supply chain management
- CO4 Understand about various retail operations
- CO5 Understand about the retail branding

Unit:1

Retail & Retailing – Meaning & definition – Scope of apparel retailing – Retailing terminologies – Types of retailers and retail formats – Global retailing scenario – Retailing scenario in India – Functions of retailers

Unit:2

Retail strategies: Operational excellence, Product differentiation, Customer intimacy – Growth strategies – Market expansion strategies – Store planning – Location planning – Store design – Store design & retailing image mix – Space mix – Effective retail space management – Store layout – Floor space management

Unit:3

Retail merchandising – Merchandise planning – Merchandise hierarchy – Buying function – Category management – Mark up & Mark down – Shrinkage in merchandising management – Cross margin return on inventory – Supply chain management in apparel retailing – ERP in apparel industry

Unit:4

Introduction to Retail operations – Significant areas – Store operating parameters related to customers, stocks, space, employee, finance – Managing retail personnel – Manpower planning – Types of employees in retail – Remuneration structure.

Unit:5

Retail Brands and Branding – Functions of brands – Types of brands – Branding strategies – Store brands or private labels – Store brands Vs National brands – Famous apparel retail brands – Packaging – Functions of packaging – Kinds of packaging – Requisites of good package – Customer service management in retail – Service management model.

TextBook(s)

- 1 Retail Management – Functional Principles & Practices, Gibson G. Vedamani, Jaico Publishing House, 2003.
- 2 Retail Management Chetan Bajaj, Rajnish Tuli & Nidhi Varma Srivastava, Oxford Publisher, 2010.
- 3 The A to Z of Retail Management, Swapnil Saurav & Ravi Potti, Eka Publishers, 2013

Reference Books

- 1 I.T. in Retailing, Robert Lewis, Unicom Seminars Ltd., 1989
- 2 Retail Management, Arif Sheikh and Kaneez Fatima, Himalaya Publishing House, 2008. Related Online Contents (MOOC, SWAYAM, NPTEL, Websites etc) <https://nptel.ac.in/courses/110/107/110107147/> https://onlinecourses.swayam2.ac.in/imb19_mg02/

ELECTIVE PAPER I ORGANIZATION OF GARMENT UNIT

Course Objectives:

The main objectives of this course are to:

1. Enable student to become a successful entrepreneur/manager in the future
2. Impart knowledge on the organization of the various departments of a garment unit
3. Gain a better understanding of a garment unit with SWOC analysis

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Interpret the meaning of entrepreneur and management
- CO2 Understand the organizational structure of a garment unit
- CO3 Plan factory design and layout to suit the production needs
- CO4 Prepare cost sheet for a finished product
- CO5 Set up a garment unit by performing SWOC analysis

Unit:1 Entrepreneur and Management

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

Unit:2 Organizational Structure of a Garment Unit

Organizational structure of 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. Role of HR in apparel industry.

Unit:3 Factory Design and Layout

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. Balancing – Steps to balance the line - Initial balance - Balance control - Efficiency - Cycle checks - Balancing tools.

Unit:4 Principles of Costing

Principles of costing - requirement of good costing system. Cost estimation of yarn and fabric. Cost estimation for dyeing, printing, embroidery, cutting, stitching, checking, packing,

final inspection, shipping and insurance.

Unit:5 Garment Export Unit

Performance of Indian Garment Export and Institutions supporting Entrepreneurs, SWOC Analysis Setting up of garment unit for export market, Export Document, Export finance - Payment method, Export shipping.

Institutions supporting entrepreneurs -

DIC, NSIC, SISI, SIPCOT, TII, KVIC, CODISSIA, Commercial banks – SBI.

Text Book(s)

- 1 Introduction to Clothing Production Management, A J Chester 2nd Edition, Wrenbury Associates Ltd, 1998.
- 2 The technology of clothing manufacture, Harold Carr and Barbara Latham, Blackwell Science, 1994.
- 3 Apparel Costing, A functional Approach - Krishnakumar. M, Abishek Publications, Chandigarh, 2011.

Reference Books

- 1 Principles of Management, Dinakar Pagare, Sultan Chand and Sons, Delhi, 2018.
- 2 Entrepreneurship Development in India, Dr. C. B. Gupta, Dr N. P. Srinivasan, Sultan Chand and Sons Delhi, 1997.
- 3 Industrial Engineering in Apparel Production, V. Ramesh Babu, Woodhead Publishing India in Textiles, 2012.

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

- 1 <https://lonelyentrepreneur.com/types-of-entrepreneurs/>
- 2 <https://textilecourse.blogspot.com/2019/02/plant-layout-textile-garment-industry.html>
- 3 <https://www.fibre2fashion.com/industry-article/7665/the-organisation-of-a-clothing-factory>
- 4 <https://apparelcosting.blogspot.com/2017/05/apparel-costing-principles.html>
- 5 <https://www.onlineclothingstudy.com/2019/04/how-to-start-garment-business.html>

ELECTIVE PART I – B PRINTING TECHNOLOGY

Course Objectives:

The main objectives of this course are to:

- 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

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Understand the concept of colour and its measurement techniques.
- CO2 Apply the process of dyeing of various fibers with different dyes
- CO3 Understand the mechanism of dyeing with different dyes.
- CO4 Understand the methods and styles of printing.
- CO5 Describe the Advanced printing techniques

Unit: 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

Unit: 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.

Unit: 3 Printing Machines

Screen printing- preparation of screen, printing paste, printing process– Tablescreen printing, Flatbed screen printing machine, Rotary screen printing machine. Discharge printing- chemicals used, process involved

Unit: 4 Methods of Printing

Methods of Printing, Block, Flat, Rotary Screen, engraved Roller, Transfer, Duplex printing, Pigment Printing, Batik, Khadi.

Unit:5 Printing Techniques

Advanced printing techniques-electrostatic, digital, sublimation. Other printing methods: Inkjet printing, Heat transfer printing, photoprinting. Fixation and after treatment, Printing

Reference Books

- 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 Griffinco, Dyeing and chemical technology of textile fibers, Woodhead Publishing Limited, London, 2004.
- 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.

ELECTIVE PAPER-I-

CENTREPRENUERIAL DEVELOPMENT

Course Objectives:

The main objectives of this course are to:

1. Impart knowledge on the significant functions of entrepreneurship
2. Inform the prospective entrepreneurs to steps in creating a project proposal
3. Give an overview of the institution that support entrepreneurship

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Understand the types and functions of entrepreneurship
- CO2 Identify, select a product and prepare a project proposal
- CO3 Distinguish the institution that supports entrepreneurs
- CO4 Discover plans available in the supporting institutions
- CO5 Analyse the available incentives and subsidies

Unit:1 Context of Entrepreneurship

Concept of Entrepreneurship: Definition Nature and Characteristics of Entrepreneurship - Functions and types of Entrepreneurship phases of EDP. Development of women Entrepreneur and rural Entrepreneur – including self-employment of women council scheme

Unit:2 Project

The Start-up process, Project Identification – Selection of the product – Project formulation evaluation – Feasibility Analysis, Project Report

Unit:3

Institutional service to Entrepreneur – DIC, SIDO, NSIC, SISI, SSIC, SIDCO, ITCOT, IIC, KUIC and commercial Bank

Unit:4

Institutional finance to Entrepreneur – IFCI, SFC, IDBI, ICICI, TIIC, SIDCS, LIC and GIC, UTI, SIPCOT – SIDBI and commercial Bank venture capitals.

Unit:5

Incentives and subsidies – Subsidised Services – Subsidy for market. Transport – seed capital assistance – Taxation benefit to SSI – role of Entrepreneur in export promotion and import substitution

TextBook(s)

- 1 Entrepreneurial Development, C.B.Gupta and N.P.Srinivasan, Sultan Chand & Sons, 2020.
- 2 Fundamentals of Entrepreneurship and Small Business, Renu Arora and S.K.I.Sood, Kalyani Publishers, 2015.
- 3 Entrepreneurial Development, S.S.Khanka, S.Chand Publishing, 2006

Reference Books

- 1 Entrepreneurial Development, P.Saravanel & P.Sumathi, Margham Publications, 2020.
- 2 Entrepreneurial Development, S.G.Bhanushali, Himalaya Publishing House, 1987

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

- 1 <http://www.simplynotes.in/e-notes/mbabba/entrepreneurship-development/>

SKILL BASED SUBJECT III
GARMENT QUALITY AND COST CONTROL

Course Objectives:

The main objectives of this course are to:

1. To learn the concepts of garment quality control
2. To study the different quality management systems
3. To know about different quality processes

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Define and establish quality standards
- CO2 Describe functions of quality control
- CO3 Analyze garment cost and cost control
- CO4 Appraise different quality management systems
- CO5 Evaluate the quality based on the parameters

Unit:1 Quality Control and its Standards

Definition and Scope of Quality control – establishing merchandising standards – establishing raw material quality control specifications – quality control of raw material. Establishing Processing quality specification – Quality control inspection procedures for processing – Quality control of finished garments – Quality control for packaging, warehousing and shipping – Statistical quality control - Sampling plans – Industry-wide quality standards .

Unit:2 Functions of Production Control

Function of production control – Production analysis – Quality specifications – quantitative specifications – Basic production systems – whole garment, departmental whole garment, subassembly systems and progressive bundle systems, Principles for choosing a production system – Evaluating production systems

Unit:3 Functions of Cost Control

Functions 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 ration policies – the manufacturing budget – cash flow controls – standard cost sheet, break-even – charts.

Unit:4 Quality Management

Quality – Evolution of Quality management – Quality function and quality planning – Basic concepts of Total Quality Management(TQM)– Principles of TQM – QualityTrilogy–Four pillars of TQM – PDCA cycle & PDSA cycle – Kaizan concept – 5“ S Philosophy –Qualitycircles.

Unit:5 Environmental Management System

Environmental Management System (EMS) – Meaning & Definition – Elements of EMS – Benefits of EMS – Environmental Policies – Implementation of ISO 14000 – study onothermanagementsystem:SA8000,OHSAS18000andWRAP.

TextBook(s)

- 1 ApparelManufacturingAnalysis,Solinger, Jacob,NewYork,Textilesbooks,1961.
- 2 ManagingQualityInTheApparelIndustry, PradipVMehta,SathishKBhardwaj,NewAgeInternational,1998

ReferenceBooks

- 1 Apparelmanufacturinghandbook,analysisPrinciplesandPractice,Solinger,Jacob,Columbiamedia corp,1988.
- 2 QualityControlHandbook,J.M.Juran,.publicationsMcGraw-HillEducation,1988.
- 3 TotalQualityManagement,BaskerS,AnuradhaPublications,Kumbakonam,2017.

RelatedOnlineContents[MOOC,SWAYAM,NPTEL,Websitesetc.]

- 1 https://textilelearner.blogspot.com/2011/08/quality-control-system-in-garments_2589.html
- 2 <https://www.fibre2fashion.com/industry-article/3055/quality-systems-for-garment->
- 3 <https://onlinegarmentsacademy.blogspot.com/2019/07/quality-control-of-apparel-industry.html>
- 4 <https://www.sciencedirect.com/science/article/pii/B9781782422327000163>
- 5 <https://www.textileschool.com/488/quality-control-in-garment-manufacturing/>

SEMESTER – VICO RE PAPER VIII COMPUTERS IN THE GARMENT INDUSTRY

Course Objectives:

The main objectives of this course are to:

1. Impart knowledge on the significant role played by the computers in the garment industry
2. Create an awareness on the latest technologies available in the various sectors of the garment industry
3. Teach the advantages of using computer technology to improve the production qualitatively and quantitatively

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Articulate the specifications and functions of a computer and its peripherals
- CO2 Appraise the inevitable role played by computers in various sections of a textile/garment industry
- CO3 Understand the application of CAD and CAM in the areas of textile and garment designing
- CO4 Discover the use of computers in the field of body measurements, pattern making and grading
- CO5 Weigh the advantages of computer technology in the process sequences and thereby increase production

Unit:1 Computers and its Peripherals

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

Unit:2 Computers in Fashion Industry

Role of computers in fashion industry – Information flow – CAD, CAM, CIM, CAA, PDC

– Definition and functions. Computers in production planning and production scheduling computerized color matching system.

Unit:3 Computers in Creating Fabric and Garment Designs

CAD in creating designs – Advantages. Computerized weaving, knitting and printing, creating Computerized embroidery machines, Garment designing with CAD – 2D and 3D forms.

Unit:4BodyMeasurements,PatternMakingandGrading

3D Body scanning systems, Made to measure systems, CAD in pattern making and grading – system description – information flow – process involved in pattern making, process involved in pattern grading

Unit:5ComputersintheGarmentManufacturing

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

TextBook(s)

- 1 Computers in the Garment Industry – Dr R Sheela John and Dr S Amsamani, Shanga Verlag, Coimbatore, 2013
- 2 Fashion: From Concept to Consumer 4th Edition – Gini Stephens Frings, Prentice Hall, Pearson, 2007

ReferenceBooks

- 1 Computer Fundamentals, PK Sinha, BPB Publications, Delhi, 1992
- 2 The Technology of Clothing Manufacture, Harold Carr and Barbara Latham, Blackwell Ltd, 1994
- 3 Computer Technology for Textiles and Apparel, Jinlian Hu, Elsevier, 2011
- 4 Automation in Garment Manufacturing, Rajkishore Nayak and Rajiv Padhye, Woodhead Publishing, 2017

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- 1 <https://inifdahmedabad.com/blog/importance-of-cad-in-fashion-industry/>
- 2 <https://clothingindustry.blogspot.com/2018/02/application-cad-weaving.html>
- 3 <http://textilescommittee.nic.in/writereaddata/files/publication/gar4.pdf>
- 4 <https://study.com/academy/lesson/how-is-cad-cam-used-in-textiles.html>
- 5 <https://clothingindustry.blogspot.com/2018/02/importance-cad-textile-designing.html>
- 6 <https://textilelearner.blogspot.com/2012/03/computer-application-areas-in-textile.html>
- 7 https://link.springer.com/chapter/10.1007/978-3-642-58214-1_47

COREPRACTICAL– VIICADPRACTICAL II

The main objectives of this course are to:

1. Create professional designs with computers
2. Develop garment designs by using various tools and colours in the digital software
3. Apply the elements/principles of design and colour harmonies in the garment designs

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Create garment designs with different colour harmonies in computers
- CO2 Develop garment designs for the various elements of design in computers
- CO3 Design garment sketches following the principles of design in computers
- CO4 Create garment designs for various seasons in computers
- CO5 Draft and grade patterns digitally

1. Create Garment Designs for the Following Colour Harmonies

- Monochromatic colour harmony
- Analogous colour harmony
- Complementary colour harmony
- Double complementary colour harmony
- Split Complementary colour harmony
- Triad colour harmony
- Tetrad colour harmony
- Neutral colour

2. Create Garment Designs for the Following Elements of Design

- Line
- Shape
- Size

3. Create Garment Designs for the Following Principles of Design

- Balance
- Rhythm
- Emphasis
- Proportion
- Harmony

4. Create Garment Designs for the Following Seasons (Child-1; Woman - 1; Man-1)

- Summer
- Winter
- Spring
- Autumn

5. Draft and Grade Patterns for the Following Garments

- Bib
- Jabla

- Salwar
- T-Shirt

6. Create Garment Designs for the Following Occasions (Child-1; Woman -1; Man-1)

- Partywear
- Casualwear
- Wedding collection
- Sports wear (any three sports)

Text Book(s)

- 1 Fashion Design Drawing & Presentation, Patrick John Ireland, Pavilion Books, London, United States, 1982.
- 2 Drawing and Designing Children's and Teenage Fashions, Patrick John Ireland, Wiley, 1979.
- 3 Fashion Design Illustration: Men, Patrick John Ireland, B. T. Batsford Books, London, 1996.

Reference Books

- 1 Fashion Sketch Book, Bina Abbing, Fairchild Books, New York, 2007
- 2 Foundation in Fashion Design and Illustration, Julian Seaman, B. T. Batsford Books, London, 2001

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

- 1 https://www.youtube.com/watch?v=jTWtQNTJt_A
- 2 <https://www.youtube.com/watch?v=iX7O4fNQijA>
- 3 <https://www.youtube.com/watch?v=nWCNuSBc1Y0>
- 4 <https://www.youtube.com/watch?v=x8BsIME4gi4>
- 5 <https://www.youtube.com/watch?v=LMZPbT1msR0>

CORE PAPER–IX

TEXTILE WET PROCESSING

Course Objectives:

The main objectives of this course are to:

1. Prepare the fabric for finishing
2. Dye and Print fabrics using suitable dyes and prints
3. Familiarize on Effluent and its impact

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Familiarize with the Process sequence in a textile industry
- CO2 Explain the types of finishes
- CO3 Discover the dyes and dyeing method
- CO4 Understand the various printing methods
- CO5 Analyze the pollution created by the textile industry and the need for effluent treatment

Unit:1 Wet Processing Process and Basic Finishes

Process sequence of textile wet processing; Finishes types – Basic finishes, Aesthetic finishes, Functional finishes and Special purpose finishes
Basic Finishes – Singeing, desizing, scouring, bleaching and mercerizing – Process sequence and methods.

Unit:2 Aesthetic, Functional and Special Finishes

Aesthetic finish – glazed, Moire, embossed, napped finish
Functional finish – Water repellent, flame retardant, antistatic finish
Special purpose finish – fragrance, antibacterial, stone wash and enzyme wash in denim
Recent trends – Microencapsulation and nano finishes

Unit:3 Dyes and Dyeing Machines

Dyes – classification and suitability of dyes to the fabric, stages of dyeing – fiber, yarn, fabric and garment dyeing, Natural dyes and its significance,
Dyeing machines – loose stock fiber bale – hank package – jigger – winch – HT & HP Beam, jet – padding mangles. Garment dyeing machines

Unit:4 Direct Printing

Printing – Difference between dyeing and Printing
Preparation of Printing Paste, Properties and types of Thickeners,
Direct Printing – Block Printing – History and techniques used. Screen Printing – Flat screen and Rotary screen, techniques used

Unit:5 Resist,DischargePrintingandEffluentTreatment

Resist Printing – Tie and Dye and Batik; Process sequence and techniques. Discharge Printing, other methods – Digital Printing, Heat transfer printing. Effluent Treatment – Pollution created by the processing unit, Process sequence in Effluent treatment Plant

TextBook(s)

- 1 Textile Chemistry, Paters R.H, Elsevier Publishing, 1967.
- 2 Technology of Textile Processing, Shenai V.A., Sevak publications, Bombay, 1981.
- 3 Textile Finishing, Shenai. V.A. Sevak Publications, Mumbai, 1999.

ReferenceBooks

- 1 Functional Finishes, Menachem Lewin and Stephen B. Sello, Marcel Dekker, Inc., 1984.
- 2 Textile Finishing, R.S. Prayag, Shree J Printers, India, 1994.

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

- 1 <https://textilecourse.blogspot.com/2018/08/working-process-printing->
- 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>

COREPRACTICALIX

TEXTILEWETPROCESSINGPRACTICAL

CourseObjectives:

The main objectives of this course are to:

1. Prepare the fabric for dyeing and printing
2. Dye the fabric using suitable dyes
3. Print the fabrics with direct and resist printing methods

ExpectedCourseOutcomes:

On the successful completion of the course, student will be able to:

- CO1 Prepare the fabric by desizing, bleaching, scouring, and mercerizing
- CO2 Apply direct, reactive, vegetable and vat dye to the cotton fabric
- CO3 Apply acid and basic dye to the silk fabric
- CO4 Analyze print designs with direct printing method – block and stencil
- CO5 Create print designs with resist printing – Tie and dye/batik

1. Preparation of Samples for Processing

- Desizing
- Bleaching
- Scouring
- Mercerising

2. Dye the Given Fabric Using Suitable Dye

- Direct Dye
- Basic Dye
- Acid Dyes
- Reactive Dyes
- Vegetable Dyes (anyone)
- Vat Dye

3. Print the Fabric Using Suitable Dyes/Pigments

- Block Printing – Wooden and Vegetable Blocks
- Stencil Printing
- Tie and Dye (use any three printing methods)
- Batik Printing

TextBook(s)

- 1 An Introduction to Textile Finishing, Marsh. J. T, Chapman and Hall Ltd, London, 1948.
- 2 Shenai V. A., Technology of Textile Processing, Vol. III, V, VI, VII Sevak publications, Bombay, 1981.

Reference Books

- 1 SimpletextiledyeingandPrinting, NoraProud,BatsfordPublisher,London,1974.
- 2 ScienceandtechnologyofTextileDyeingandColouring,S.P.Mishra,NewAgeInternational(p)LtdPublishers,2016.

Related Online Contents[MOOC,SWAYAM,NPTEL,Websitesetc.]

- 1 <https://www.youtube.com/watch?v=whm0UxZ9gnQ>
- 2 <https://www.hamstech.com/blog/significance-of-dyeing-printing-in-fashion-designing/>

ELECTIVE PAPER–II PAPER –II A

MARKETING AND MERCHAN DISING

CourseObjectives:

The main objectives of this course are to:

1. Impart knowledge on the underlying concepts of marketing and fashion marketing
2. Familiarise with the fashion products, consumer, communications, research and forecasting
3. Describe the role of merchandisers in the garment industry and their types

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Understand the basic concepts of marketing and fashion marketing
- CO2 Describe the types of fashion products and the consumer behavior
- CO3 Explain the process of communication, marketing research and forecasting
- CO4 Discover the importance of merchandisers and their types
- CO5 Interpret types of stores, design, layouts and merchandise presentation

Unit:1 INTRODUCTION TO MARKETING

Marketing–Meaning, Marketing management philosophies, Marketing and Fashion Marketing, The fashion market – structure and size. Marketing environment – Micro and Macro marketing. Marketing Mix–Product, price, promotion and place; Marketing Functions – Assembling, standardization and packaging; Digital Marketing – meaning, scope and advantages

Unit:2 FASHION PRODUCTS AND THE CONSUMER

Marketing fashion products – importance and classification of products; the product mix and range planning; the fashion product life cycle; Fashion Consumer - Role of consumer behavior in marketing, types of consumer decisions, the decision process, factors that influence decisions- consumer attitudes, consumer motivation, consumer personality, opinion leadership, family and social status

Unit:3 MARKETING – COMMUNICATION, RESEARCH AND FORECASTING

Fashion marketing communications–traditional approach and integrated approach Fashion marketing research – purpose and significance, stages in the research process Fashion forecasting–meaning and importance, basics of predicting trends– colour, theme, shape, key events, target market; trend forecasting process

Unit:4 TYPES OF MERCHANDISERS AND VISUAL MERCHANDISING

Merchandiser –essential qualities of a merchandiser; types and functions of merchandisers –fashion merchandiser, visual merchandiser, export merchandiser and retail

merchandiser; Visual Merchandising – Elements of Visual Merchandising – Needs – Psychology – Types of Display; Elements of display.

Unit: 5 STORE MANAGEMENT IN MERCHANDISING

Store Management in Merchandising - Introduction, Objectives, Types of Stores, Location of a Store, Store Layout, Types of Store Layouts, Store Space Allocation. Store Design

Introduction, Concept of Store Design, Exterior of a store, Interior of a store Merchandise Presentation - tools and techniques

Text Book(s)

- 1 Fashion Marketing, Mike Easey, Wiley-Blackwell Publishing. 2009.
- 2 Fashion Merchandising & Merchandising, Mary G. Wolfe, The Goodheart-Willcox Co., Inc, Illinois, 2014.
- 3 Fashion – From concept to consumer – Gini Stephens Frings, Prentice Hall (1999).
- 4 Fashion Marketing Management, V. Ramesh And A. Arunraj Babu, Woodhead Publishing India, 2019

Reference Books

- 1 Marketing, Philip Kotler, Gary Armstrong, Veronica Wong, John Saunders, Pearson Education, India, 2008
- 2 Fashion - from Concept to Consumer, 9th Edition, Gini Stephens Frings, Pearson Education Ltd, Harlow, 2014
- 3 Fashion Marketing, Janet

Bohdanowicz and Liz Clamp, Routledge, 1994 Related

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

- 1 <https://www.iknockfashion.com/need-of-trend-forecasting/>
- 2 <http://www.createafashionbrand.com/the-5-basics-of-trend-prediction/>
- 3 <https://www.fibre2fashion.com/industry-article/7054/decoding-the-process-of-trend-forecasting-in-fashion>
- 4 <https://textilelearner.blogspot.com/2013/10/role-of-merchandiser-in-apparel-industry.html>
- 5 <https://clothingindustry.blogspot.com/2017/12/merchandiser-merchandising-garment.html>
- 6 <https://blog.hubspot.com/marketing/what-is-digital-marketing>

ELECTIVE PAPER–II B PRINCIPLES OF MANAGEMENT

Course Objectives:

The main objectives of this course are to:

1. Impart knowledge on the Principles of Management
2. Teach the purpose of the steps in the management process
3. Guide the students to have a better understanding on the sequence of the steps involved in the managerial process

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Discover the underlying concepts of the principles of management
- CO2 Appraise of planning and the steps involved in planning
- CO3 Understand the importance of organising and the steps involved in planning
- CO4 Articulate directing and the steps involved in planning
- CO5 Recognise the importance of controlling and the steps involved in planning

Unit:1 Principles of Management

Nature and scope of management – Management Science/Art – Development of management theory – Scientific management – Henry Fayol's principles of management.

Unit:2 Planning, Purpose and Steps

Planning – Meaning and purpose of planning – Steps in planning – Types of planning – Objectives and policies – Objectives, policies, procedures and methods, nature and types of policies – Decision making – Process of decision making – Types of decisions – Problems involved in decision making.

Unit:3 Organising, Purpose and Steps

Organizing – Types of organization – Organizational structure – Span of control – Committees. Delegation and centralization line & staff relationship – staffing – Sources of recruitment – Selection process – Training methods – Performance appraisal.

Unit:4 Directing, Purpose and Steps

Directing – Nature and purpose of directing – Motivation – Discipline – Leadership – Supervision – Communication – Requirements for effective controls – Critical control points and standards.

Unit:5 Controlling,PurposeandSteps

Controlling – Needfor co-ordinating – Meaning andimportance of control – controlprocess
–types ofcontrol

TextBook(s)

- 1 IndustrialEngineeringandManagement,O.P.Khanna,DhanapatRaiPublications,New Delhi2006.
- 2 EssentialsofManagement, HaroldKoontzandHeinz Wehrich, TataMcGrawHill,1998
- 3 TheFundamentalssofFashionManagement,SusanDillon, BloomsburyPublishing,2018

ReferenceBooks

- 1 BusinessOrganisationandManagement,D.P.Jain,VrindaPublications,Delhi,1999
- 2 Management,Patrick.J.MontanaandBruce.H.Charnov,Barrows,2000.

RelatedOnlineContents[MOOC,SWAYAM,NPTEL,Websitesetc.]

- 1 <https://ncert.nic.in/ncerts/l/lebs102.pdf>
- 2 <https://www.coursera.org/courses?query=management>
- 3 <https://www.edx.org/school/iimbx>

ELECTIVE PAPER II

CBOUTIQUEMANAGEMENT

COURSEOBJECTIVES:

- Toanalyzetheretailstrategyconceptsto solveproblems
- Topreparethemanagementandmarketingskills
- Toimpartknowledgeonshowroommanagementandproductmanagement

COURSEOUTCOME:

Onsuccessfulcompletionofthe course,thestudentwillbe able to

- CO1 Defineandclassifythetypes ofbusiness
- CO2 Choosetherightplaceandsourcesforinvestment
- CO3 Understandthemanpowerplanningfortheorganization
- CO4 Make use ofmarketingtoolsandtechniques
- CO5 Analyzethepricing strategiesto promotetheproduct

UNITI:

Nature and scope of business- creating Business plan- selection of business structure- sole trader,partnershipfirms,selectionofboutiquename,typesofboutique–lowend andhighendboutiques

UNITII

Location for starting up of boutique-Factors influencing location- size of boutique, Sources ofFinance–Longterm–Shortterm-Relative MeritsandDemerits

UNITIII

Theft prevention methods- Inventory management- Motives ,benefits of handling inventorymanagement-Human Resource Management- job requirements- man power planning, performancemanagement-employee relations

UNITIV

Merchandising-RetailMerchandising-VisualMerchandising-Typesofdisplay-Exteriordisplay,Interiordisplay, Toolsforvisualmerchandising-Signage, Props,Mannequins, FixturesandLightings

UNITV

Marketing-Importanceofmarketing,PriceMix-Importance-Pricing Objectives-Pricingstrategies- PersonalSellingandSalesPromotion-Advertisement-Fashionshow,trunkshowandsamplesales-E-Marketing-Telemarketing-KioskMarketing.

Books for Reference:

1. Entrepreneurial Development, Dr. S.S. Khanka, Sultan Chand and Company Pvt Ltd., New Delhi (2013)
2. Fundamental of Business Organisation and Management, Y.K. Bhushan, Nineteenth Edition, Sultan Chand and Sons (2013)
3. Marketing Management, Rajan Saxena, Tata McGraw Hill Education, New Delhi (2005)
4. Visual Merchandising and Display, Martin M. Pegler, Fairchild Publications, New York (2002)

ELECTIVE III-A

ACCOUNTING AND BUSINESS MANAGEMENT

Unit I

Accounting concepts and conventions – rules of accounts – importance of accounting – nature and scope of accounting – double entry system – advantage – difference between double entry and single entry

Unit II

Journal, ledger, and Trial balance, subsidiary books – purchase book, sales books, purchase returns book, sales returns book and cash book with single, double and triple column cash book

Unit III

Final accounts – trading and profit and loss A/C and balance sheet with simple adjustments

Unit IV

Cost accounting – elements of cost, classification of cost – preparation of simple cost sheet (problem) – accounting for overheads – classification of overheads, allocation and apportionment of overheads – reapportionment of service department cost to production department, absorption of overheads

Unit V

Nature and objectives of business – legal forms of business of ownership – sole trader, partnership, company and co-operative societies – advantages and limitations Note: problems – 70 marks, theory – 30 marks

References

1. Introduction to accountancy – TS Grewal
2. Principles of accountancy – NVinayagam, PLMain, KLNagarajan
3. Cost accounting – SPJain and KLNarang
4. Cost and management accounting – S N Maheswari
5. Business management – Dinker Pagare
5. Business Organisation and management – YKBhushan

ELECTIVE– III–B
EXPORT ANALYSIS AND DOCUMENTATION

Course Objectives:

The main objectives of this course are to:

1. To explore the knowledge about the regulation of AEPC
2. To apply the terms and methods in the documentation purpose
3. To understand about the license procedure, pre-shipment charges and transaction

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Apply the costing techniques
- CO2 Infer the apparel promotion rules and functions
- CO3 Explain the importance of export documentation
- CO4 Classify the duties and responsibilities of import and export license
- CO5 Compile the details on exchange of bills and documentation before shipping

Unit:1

Cost Estimation of Yarn

Cost estimation of yarn, knitted fabric, dyeing, printing & finishing. Cost estimation for cutting, stitching, checking, forwarding, shipping and insurance – INCO terms & their relationship with costing. Estimation of factory cost for vest, briefs, shorts, T-Shirts, pyjamas, children's wear and women's wear. Various factors to be considered in costing for domestic products & international products

Unit:2

Role of Apparel Export Commission

Introduction – Apparel Export Promotion Council and its role – Registration formalities –

Registration cum membership certificate – Import Export code – RBI code. Benefits and incentives offered by Government of India to garment export. Role of SEZ and apparel parks in export.

Unit:3

Documents Related to the Goods

Need, rationale and types of documents relating to goods – Invoice – Packing note and list – Certificate of origin – Certificates related to shipment – Mate receipt – Shipping bill – Certificate of measurement – Bill of lading – Air way bill – Documents related to payment – Letter of credit – Bill of exchange – Letter of hypothecation – Bank certificate for payment – Document related to inspection – Certificate of inspection – GSP and other forms. Importance of insurance of goods in foreign trade – ECGC and its role

Unit:4

Import License Procedures

Import license – Procedure for import license – Import trade control regulation procedure – Special

schemes – Replenishment license – Advance license – Split up license – Spares for aftersales
servicelicense–Code number–Billofentry

Unit:5

Pre-shipmentandShipment

Pre shipment inspection and quality control – Foreign exchange formalities – Pre
shipmentdocuments.Shipmentofgoodsandportprocedures –Customsclearance

TextBook(s)

- 1 Export-What,Where, How,ParasRamandNikhilK. Garg, AnupamPublishers,
NewDelhi,2016.
- 2 ExportImportProcedures-
DocumentationandLogistics,C.NewAgeInternational(P)Limited,RamaGopal,2006.
- 3Export/ImportProceduresandDocumentation,ThomasE.JohnsonandDonnaBade,AMA
COM,2010.

Reference Books

- 1 ManagingtheQualityinApparelIndustries,PradeepVMehta,NewAgeInternational(P)
Ltd,NewDelhi,1998.
- 2 ExportImportProceduresandDocumentation,KhushpatS.Jain,HimalayaPublishingHouse,2010.

Related Online Contents [MOOC,SWAYAM,NPTEL, Websitesetc.]

- 1 <http://rafael.glendale.edu/poorna/ib/seyoum%20book.pdf>
- 2 <https://www.shippingsolutions.com/export-documentation-procedure>
- 3 <https://www.civilserviceindia.com/subject/Management/notes/export-import-procedures.html>

ELECTIVE PAPER – III –
CAPPARELQUALITYMANAGEMENT

COURSEOBJECTIVES:

The main objectives of this course are to:

1. Inculcate knowledge in the field of quality parameters
2. Plan and execute the application of quality standards in garment industry.
3. Analyze the improvement methods in the TQM techniques.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Relate quality parameters for yarn and fabric
- CO2 Identify the inspection methods for different stages.
- CO3 Analyse the principles in TQM
- CO4 Discover ISO standards for garment industry and implement it.
- CO5 Classify the ISO documentation

Unit:1

Quality Parameters in the Apparel Industry

Meaning of quality, testing and standard and their importance in apparel industry – Quality terminologies- Sources of international standards. Quality Parameters of yarn :Yarn evenness & hairiness and their effect on fabric quality. Quality parameters of fabric: Brief study of fabric pilling resistance, bursting strength, colour fastness and dimensional stability. Testing of sewing threads, zippers, fusible interlinings, buttons and fasteners.

Unit:2

Fabric Inspection

Inspection: Incoming and raw material inspection: Fabric inspection – 4-point system. In process/ on-line inspection: Advantages – On line inspection during spreading, pattern making, cutting, sewing and ironing. Final inspection: Sampling plans and AQL charts – Level of final inspection. Packing & packaging quality tests. Care labeling and international care symbols.

Unit:3

Total Quality Management

Principles of TQM – Deming's PDCA Cycle - KAIZAN concepts – 5 „S applications in apparel industry. Application of seven QC tools in apparel industry.

Unit:4

Quality Standards

Understanding of ISO 9001:2000 standards: QMS, management responsibility, resource management, product realization and measurement analysis & improvement – Various documents required for ISO 9001:2000 implementation and its contents – Development of quality system manual for garment industry.

Unit:5Quality

Audit

Documented procedures required for ISO9001:2000 implementation –
Procedures for internal quality audit – Management review meeting – Certification process –
Surveillance audit.

TextBook(s)

- 1 ISO9000 Quality Management System, D.L. Shah Trust, DLShah Trust Publication, 1999
- 2 Managing the Quality in Apparel Industries, Pradeep V Mehta, New Age International (P) Ltd, New Delhi – 1998.
- 3 An Introduction to Quality Control for the Apparel Industry, Pradip V. Mehta, J.S.N. International, 1985.
4. Quality Characterisation of Apparel, Subrata Das, Woodhead Publishing, 2009
- 5 The Fundamentals of Quality Assurance in the Textile Industry, Stanley Bernard Brahams, CRC Press, 2016.

Reference Books

- 1 Quality Management Handbook for the Apparel Industry, Pradip V. Mehta, New Age International Publishers, 2012.
- 2 Kothari V. K. Testing and Quality Management, IAFL Publications, New Delhi, 1999.

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

- 1 http://content.inflibnet.ac.in/data-server/eacharya-documents/56b0853a8ae36ca7bfe81449_INFIEP_79/12/ET/79-12-ET-V1-S1unit_7.pdf
- 2 https://textilelearner.blogspot.com/2011/08/quality-control-system-in-garments_2589.html
- 3 <https://fashion2apparel.blogspot.com/2017/02/quality-control-apparel-industry.html>

SKILL BASED SUBJECT
IV INNOVATION WITH WASTE FABRICS

COURSE OBJECTIVES:

The main objectives of this course are to:

1. Create an awareness of the pollution created by the fabric waste
2. Motivate the students to create student work on bits of waste fabric
3. Reduce the fabric pollution at a micro scale

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Appraise the enormity of waste fabric available around
- CO2 Develop Interest with accessories making with bits of fabrics
- CO3 Modify bits of fabric into a creative product
- CO4 Take part in 'thinking out of the box' concept
- CO5 Design creative and unique products that can be used in their home

1. Collection of Fabric Wastes

Waste fabrics are collected. The waste fabrics include used clothes, torn garments, fabric waste bits from the tailoring shops or dressmaker's room. The fabrics are washed with soap and hot water and sterilized.

2. Create the Following Accessories

- Hand Bags
- Cell Phone Pouches
- Belts

3. Create the Following Ornaments

- Set of Earrings
- Pair of Bangles
- Hair Band

4. Create the Following Products

- Puppets
- Dress for the Dolls
- Note Book Covers

5. Home Textile Products

- Table Cloth
- Door Mats
- Plate Mats
- Pillow Covers
- Any other (For your creativity)

PROJECT

FASHION DESIGNING PORTFOLIO COURSE OBJECTIVES:

The main objectives of this course are to:

1. Create garment collection based on an inspiration/theme
2. Search and find out exclusive fabrics and accessories for the garment collection
3. Present the garment collection in the form of a portfolio album

Expected Course Outcomes:

On the successful completion of the course, student will be able to:

- CO1 Design garment collection based on an inspiration/ theme
- CO2 Develop various boards like theme board, mood board, storyboard, colour board, fabric swatch board, pattern board and flat pattern
- CO3 Select suitable fabrics and accessories for the garment collection
- CO4 Create a portfolio album
- CO5 Compile and present the portfolio effectively

Fashion Design Portfolio – An Introduction

A fashion design portfolio is a collection of samples put together by a fashion designer to show off his or her skills to a prospective employer or fashion school. A typical fashion design portfolio should include fashion illustrations, an inspiration or mood board with textile swatches, flat sketches manually or with computer.

Instructions to the Student

Every Student will be assigned a Guide and the student should report to the guide at least once in a week. The student should work on an inspiration and develop sketches. After the approval from the Guide, the fabrics must be purchased and converted into a garment. Minimum of 4 garments has to be created. The garment collection is then photographed on a live model. Portfolio (Manual/Digital) is created

Details of the Portfolio

The Portfolio must be created as an album/book/Magazine and should contain the following boards

- Customer Profile
- Inspiration/Theme Board
- Mood Board/Story Board
- Colour board/Swatch Board
- Accessory Board (optional)
- Pattern Board
- Flat Sketch/Fashion Illustrations
- Photograph of all the Garment

Evaluation of the Project

The students should present the portfolio and the garments to the panel of examiners and answer the questions raised by the examiners

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

- 1 <http://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827>
- 2 <https://fashionandillustration.com/en/how-to-make-a-fashion-collection/>
4. https://www.apparelsearch.com/fashion/designer/name/a/anna_sui/spring_fashions_a_nna_sui_fashion_designer_guide.html

Text Book(s)

- 1 Cool Fabric Projects:
Creative Ways to Upcycle Your Trash Into Treasure, Pam Scheunemann, ABDO, 2012
- 2 Upcycling Crafts, Kitty Moore, Venture Ink, 2019
- 3 Quilts from the House of Tula Pink, 20 Fabric Projects to Make, Use and Love, Tula Pink, Krause Publications, 2012

Reference Books

- 1 Half Yard (TM) Bags & Purses: Sew 12 beautiful bags and 12 matching purses, Debbie Shore, Search Press, Limited, 2018
- 2 Crafty Little Things to Sew: 20 Clever Sewing Projects Using Scraps & Fat Quarters - Caroline Fairbanks and Critchfield, Lark Books, 2017

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

- 1 <https://www.diyncrafts.com/15703/repurpose/100-brilliant-projects-to-upcycle-leftover-fabric-scrap>
- 2 <https://feltmagnet.com/crafts/Fabric-Scraps-Crafts-Ideas>
- 3 <https://in.pinterest.com/fabricdotcom/scrap-fabric-projects/>
- 4 https://www.youtube.com/watch?v=YscLxJrZ_WI
<https://sewing.com/sewing-projects-fabric-scrap/>