

MANONMANIAM SUNDARANAR UNIVERSITY – TIRUNELVELI
B . SC . , Fashion Designing & Apparel Making CURRICULUM
(For the students admitted during the academic year 2020-2021)

Sem	Pt. I/II/III/ IV/V	Subject Status	Subject Title	Contact Hrs/ week	L Hrs/ week	T Hrs/ week	P Hrs/ week	C Credits
III	III	Core - III	Fabric structure and Design	5	5	0	0	4
	III	Core - IV	Fashion Designing	4	4	0	0	4
	III	Core - V	Fashion and clothing psychology	4	4	0	0	4
	III	Core Practical- III	Designing and Construction of women's wear	4	0	0	4	2
	III	Allied - III	Computer in the Garment Industry	3	3	0	0	3
	III	Allied Practical - III	Basic Illustration	4	0	0	4	2
	IV	Skill Based Core - I	Textile Processing	4	4	0	0	4
	IV	Non-Major Elective - I	1. Embroidery and Surface working 2. Fashion Concept	2	2	0	0	2
	IV	Common	Yoga	0	0	0	0	2
			Total	30				27
Sem	Pt. I/II/III/ IV/V	Subject Status	Subject Title	Contact Hrs/ week	L Hrs/ week	T Hrs/ week	P Hrs/ week	C Credits
IV	III	Core -VI	Knit Fabric and Structure	5	5	0	0	4
	III	Core - VII	Fashion Merchandising and Marketing	4	4	0	0	4
	III	Core -VIII	Technology of Textile Finishing	4	4	0	0	4
	III	Core Practical - IV	Computer Aided Design	4	0	0	4	2
	III	Allied - IV	Printing Technology	3	3	0	0	3
	III	Allied Practical IV	Textile Processing	4	0	0	4	2
	IV	Skill Based Core - II	Entrepreneurial Development	4	4	0	0	4
	IV	Non- Major - Elective - II	1. Fashion Illustration 2. Fibre to Fashion	2	2	0	0	2
	IV	Common	Computers for Digital Era	0	0	0	0	2
	V	Extension Activity	NCC,NSS,YRC,YWF,PE-	0	0	0	0	1
			Total	30				28

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Sem	Pt. I/II/III/ IV/V	Subject Status	Subject Title	Contact Hrs/ week	L Hrs/ week	T Hrs/ week	P Hrs/ week	C Credits
V	III	Core - IX	Apparel Costing	6	6	0	0	4
	III	Core - X	Home Textile	5	5	0	0	4
	III	Core - XI	Care and maintenance of Textiles	5	5	0	0	4
	III	Core Practical - V	Designing and Constructing Men's wear	4	0	0	4	2
	III	Major Elective - I	Technical Textiles	4	4	0	0	4
	IV	Skill Based Common - III	Personality Development/ Effective Communication/ Youth Leadership	2	2	0	0	2
	III	Mini Project		4	0	0	4	6
			Total	30				26
Sem	Pt. I/II/III/ IV/V	Subject Status	Subject Title	Contact Hrs/ week	L Hrs/ week	T Hrs/ week	P Hrs/ week	C Credits
VI	III	Core - XII	Textile Testing and Quality Control	4	4	0	0	4
	III	Core -XIII	Apparel Export Trade Documentation	4	4	0	0	4
	III	Core - XIV	Clothing care and Wardrobe Planning	4	4	0	0	4
	III	Core - XV	Apparel Production and Quality Management	4	4	0	0	4
	III	Core Practical - VI	Textile testing and Quality Control	4	0	0	4	2
	III	Major Elective -II	Fashion Portfolio	4	4	0	0	4
	III	Major Project		6	0	0	6	7
			Total	30				29

FABRIC STRUCTURE AND DESIGN

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

Unit - I Elements of woven design

Elements of woven design, Methods of fabric representation, draft and lifting plan, construction of elementary weaves – plain, wrap rib, weft rib, twill, modification of twills, satin and sateen weaves – their derivatives. Principles of shuttleless looms- projectile, air-jet, water-jet, rapier.

Unit – II Fancy weave

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

Unit – III Extra – warp and extra weft figuring:

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

Unit-IV Pile fabric

Pile fabric – Formation of pile – weft pile- warp pile- Bedford cord and its Modifications.

Unit –V Double cloth

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

Reference

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

FASHION DESIGNING

Preamble: This course facilitates an understanding of fashion design and orients the learners in the field of costume design. The learners are expected to know the elements of design, principles of design, fashion designers and colors in fashion industry.

Unit - I Terms related to the fashion industry:

Terms related to the fashion industry- Fashion, style, fad, classic, collection, chic, custom made, mannequin, fashion show, trend, forecasting, high fashion, fashion cycle, haute couture, culture, couturier, fashion director, fashion editor, line, knock-off avantgarde, bridge, buying house, fashionmerchandising, pre-a-porter, sample.

Unit - II Design

Design- Definition and types – structural and decorative design. Elements of design – line, shape or form, color, size and texture. Application of structural and decorative designs in a dress. Selection and application of trimmings and decorations. Fashion accessories- shoes, handbags, hats, ties – different types/shapes. Principles of design- balance- formal and informal, rhythm- through repetition, radiation and gradation, emphasis, harmony and proportion. Applications of principles of design in adress.

Unit - III Colour

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

Unit - IV Designing dresses for unusual figures:

Designing dresses for unusual figures types - stout figure, slender figure, narrow shoulder, broad shoulder, round shoulder, large bust, flat chest, large hip, large abdomen, round face, large face, small face.

Unit - V Designers

Designer- Role & function, Types of designer. Fashion and season, Designing dresses for different occasions – business meetings, parties/dinners, evenings, leisure hours, marriage functions, sports, airhostess & hoteliers,

Reference

1. Fashion sketch book – BinaAbling, Fair Child Publications, New York Wardrobe.
2. Inside the Fashion Business – Heannette A Jarnow et-al, Macimilan Publishing Company, New York.
3. Art and Fashion in Clothing Selection – McJimsey and Harriet, Iowa State University press, Jowa.

FASHION AND CLOTHING PSYCHOLOGY

Preamble: This course facilitates an understanding of fashion accessories and orients the learners in the field of fashion design. The learners are expected to know the fashion psychology and fashion designer in fashion industry.

Unit – I Fashion Accessories

Fashion Accessories – Shoes, handbags, jewelry, hats, ties and other. Prepare an album for accessories.

Unit – II Figure irregularities

Figure irregularities – stout figure, thin figure, slender figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, large face, small face and broad face, prominent chin and jaw and prominent forehead.

Unit – III Factors affecting fashion changes

Factors affecting fashion changes – Psychological needs of fashion, psychology of fashion, Technology, Economical, Political, legal and seasonal.

Unit – IV Recurring silhouettes

Recurring silhouettes – changes in silhouettes; fashion cycle; Prediction fashion; Role of costumers as status symbol, clothes as sex appeal, self identity, cultural value.

Unit – V Understanding Fashion Designer

Understanding Fashion Designer- Designer types – Classicist, idealist, Influenced, Realist Thinking poet.

Reference

1. Bennett “Femina Book of Fashion”, Coleman & Co., Ltd., Mumbai (1998).
2. Jeaneettee. A. Jarnow, Miriam Guerrero, “Inside the Fashion Business”, Mecomillion Publishing Company New York 1987.
3. Harriet T. Mcjimesey, “Art and Fashion in clothing selection”, Thelowa state University Press, Ames, Iowa 1973.

DESIGNING AND CONSTRUCTION OF WOMEN’S WEAR

1. SIX GORE SAREE PETTICOAT

Feature:

- a) Six panel
- b) Frilled edge

2. FOUR GORE SAREE PETTICOAT

Features:

- a) Four panel
- b) Frilled edge

3. BLOUSE:

Features:

- a) Front open
- b) Fashion neck
- c) Waist band
- d) Any sleeve

4. PRINCES CUT BLOUSE

Features:

- a) Boat neck
- b) Princes cut
- c) Any sleeve

5. MIDDI

Features:

- b) With (or) without open
- c) Waist band of elastic
- c) Panel

6. MIDDITOP

Features:

- a) Back (or) Front open
- b) Collar
- c) Fashioned full sleeve with or without cuff.

7. MAXI

Features:

- a) Back open
- b) Trimming in front
- c) Fashioned neck
- d) Fashioned sleeve

8. NIGHTY

Features:

- a) Yoke
- b) Bell sleeve
- c) Gathered bottom
- d) Attaching trimmings.

9. SALWAR

Features:

- a)Tape or Elastic attached waist
- b)Designed bottom.

10.KURTA

Feature:

- a)Fashioned neck
- b)Fashioned sleeve
- c)Side seam slit.

11.LADIES PANT

Features:

- a)Waist band
- b)Zip attached
- c)Patch pocket

12. LAIDES SHIRT

Features:

- a)Half or Full open
- b)Collar
- c)Half or Full Sleeve

13.KAMEEZ

Features:

- a)Fashioned front body
- b)Back or Front open
- c)Fashioned neck
- d)Fashioned sleeve.

Reference

1. Practical Clothing Construction Part-I & II – Mary Mathew
2. Zarapkar System of Cutting - K.R.Zarapkar
3. Easy Cutting – Juvekar
4. Commercial system of cutting – Juvekar
5. Dress making – Smt. ThangamSubramaniam

SEMESTER - III

ALLIED - III

COMPUTER IN THE GARMENT INDUSTRY

Preamble: This course facilitates an understanding the role of computer in garment industry and orients the learners in the field of design .The learners are expected to know the application of computer in pattern making and grading in textile industry.

Unit – I Classification of computers

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

Unit – II Role of computers

Role of computers in fashion industry-Information flow – CAD,CAM,CIM,CAA, PDC – Definition and Functions.

Computers in production planning and production scheduling, computerized colour matching system.

Unit – III CAD in Designing

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

Unit – IV CAD in Pattern making and grading

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

Unit – V Computer application

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

References

1. Clothing Technology – Hannelore Eberle et – al, Verlaag Europa – Lehrmittel Vollmer Gmbh&Co4287, Haan – Gruilen.
2. Computer Fundamentals – P K Sinha, BPB Publications, Delhi (1992)
3. The technology of clothing manufacture – Harold Carr and Barbara Latham, Blackwell Ltd (1994)
4. Pattern Grading for Women’s Cloths The Technology of sizing – Gerry Cooklin, Blackwell Science Ltd (1990)

BASIC ILLUSTRATION

Unit - I Lines and line drawings

Lines and line drawings – object drawing and perspective view drawings, Enlarging and reducing motifs. Learning the usage of various drawing and sketching mediums – Pencils, Ink, Brushes, Crayons and Poster colors.

Unit - II

Drawing a stick figure for both normal and fashion figure. Forming a fleshy figure over a stick figure.

Unit - III

Dividing the figure into various parts using lines like plumb line, center front line, princess line, waistline, side seam, armhole, jewel neckline, panty line, bust line etc., Practicing the art of creating textures.

Unit - IV

Illustrating pattern details – pockets, sleeves, yokes, skirts, trousers, tops, etc., Illustrating different types of ornaments and accessories.

Unit - V

Illustrating details of ruffles, cowls, shirring, smocking, quilting, draping, gathers, pleats, frills and flounces. Basic concept and types of silhouette.

References

1. Fashion Design Drawings & Presentation, Ireland Patrick John.
2. Fashion Design Illustration: Children, Ireland Patrick John.
3. Fashion Design Illustration: Men, Ireland Patrick John.
4. Fashion Design Illustration, Ritu.
5. Foundation in Fashion Design and Illustration – Julian Seaman.

TEXTILE PROCESSING

Preamble: This course facilitates an understanding of dyeing techniques and orients the learners in the field of textile industry. The learners are expected to know the, pre- processing techniques and dyeing machines in the textile industry.

Unit - I

Typical sequence of processes, Object and methods. Singeing, Desizing, Scouring, Synthetic Fiber Heat setting, Wool carbonizing, Weighting of silk. Wet processing equipment – Kier - J box – padroll – U box – Roller bed – Conveyor steamer – stenter.

Unit - II

Mercerization – Theory process – Methods – Chemicals – effects. Bleaching – Hypochlorites – Hydrogen peroxide – sodium chlorite, Evaluation of bleached fabric – whiteness – absorbency – chemical damage – residues.

Unit - III

Dyeing – Definition, classification, Natural Dyes – vegetable dyes, Animal dyes, Mineral dyes, Synthetic dyes – Direct, Disperse, reactive, Acid, Basic, Azoic, Sulphur, Vat, and suitable for different fabrics.

Unit - IV

Dyeing machines – fiber, yarn and fabric dyeing machines – loose stock fiber bale – hank package – jigger – winch – HT Beam jet – padding mangles. Garment dyeing machines.

Unit - V

Wet processing of polyester, nylon, silk, wool and their blends.

Reference

1. Paters R.H. Textile Chemistry Vol. I. II Textile institute, Manchester 1970.
2. Shenai V.A. "Technology of textile processing" Vol. III. V. VII, VH Sevale publications, BOMBAY 1981.
3. Lewis D.M. "Wool Dyeing" SDC publications England 1990

EMBROIDERY AND SURFACE WORKING

Preamble: This course facilitates an understanding of traditional embroidery used in different states of India and orients the learners in the field of woven textiles of India. The learners are expected to know the hand embroidery stitches, machine embroidery stitches and surface trimmings.

Unit-I

Hand embroidery- Running stitch, back stitch, stem stitch, blanket stitch, lazy daisy stitch, chain stitch, herring bone stitch, fish bone, seed stitch and cross stitch.

Unit-II

Feather-single and double, Romanian stitch, fly stitch, long and short stitch, French knot, bullion knot, double knot, satin stitch and couching.

Unit-III

Machine embroidery - Running stitch, Cording stitch, Satin stitch, Long and Short, Round stitch and Eyelet work.

Unit-IV

Traditional Indian embroidery - Kashida of Kashmir, Kantha of Bengal, Phulkari of Punjab, Embroidery of Kutch and Kathiawar, Kasuti of Karnataka, Chikankari of Lucknow.

Unit-V

Creating style through surface trimming - Cut work, Bead work, Sequence work, Mirrorwork, Patchwork, Appliqué work, Quilting, Fabric Painting, Drawn thread work, Faggoting and Smocking.

Reference

1. Practical clothing construction part I & II – Mary Matthew
2. Indian Embroidery – Kamala devi
3. Creative art of embroidery – Barbara snook

FASHION CONCEPT

Preamble: This course facilitates an understanding of fashion design and orients the learners in the field of fashion design. The learners are expected to know the elements of design, principles of design, fashion designer and colors in fashion industry.

Unit – I

Fashion - Style - Fad Definition – Sources of Fashion – Terms related to Fashion Industry – Boutique, Collection, Classic Chic Fashion Show, Fashion Trends and High Fashion.

Unit – II

Role of designer - Researching the market. Design process, sample production. Sources of design inspiration. Types of designer – High fashion designer, Moderate designer, Stylist and free – lance designer.

Unit – III

Colour - definition characters of colour, theory, colour schemes, colour psychology, visual and physical effect of colour, colour & texture, colour marketing systems. Value and intensity of colour.

Unit – IV

Design and Principles of design, Definition, types of design – structural and decorative design, characteristics of a good design, elements of design, principles of design – Definition – Harmony – Proportion – Scale, balance – Rhythm – Emphasis - and its application in dresses.

Unit - V

Components of fashion – Silhouette, Texture, colour, Acceptance change, environment of fashion – Economic factors, sociological factors, Physical factors Psychological factors. Movement of fashion – cycling of fashion, Stages of fashion cycle.

Reference

1. Goldstein and Goldstein. Art in Everyday life. Mac Millan and co. New York.
2. Mathews M. Practical clothing construction. Part – III cosmic Press, Madras.
3. Markstorm, Dorothy and Jane. Guide to Modern clothings, MC, Graw Hill Boom Company, New York.

KNIT FABRIC AND STRUCTURE

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

Unit - I Knitting

Knitting - Definition. Differentiate weaving and knitting. Classification of knitting. Comparison of warp and weft knitting. Basic knitting elements.

Unit - II Weft knitting

Weft knitting –Definition .Yarn passage diagram of a circular knitting machine- knitting elements and mechanism. Rib, interlock, purl structure. Ornamentation – derivatives. Pique - Variations. Major types of yarns for weft knitting, Defects in weft knitted fabrics.

Unit - III Knitted Machines

Circular rib knitted machine – Elements and functions. Interlock knitting machine – Elements and functions. Non apparel use of knit goods.

Unit - IV Jacquard Knitting

Jacquard knitting- Needle selection for jacquard and non-jacquard Pattern making –Pattern wheel , pattern drum, programmed tape. Calculations – Methods of finding courses per inch, wales per inch and loop length- GSM calculation- count and gauge relationship- efficiency calculation – tightness factor- Production in length and weight units.

Unit - V Warp Knitting

Warp knitting – Definition – knitting machines – Variations in warp knitting- Tricot – Variations in guide bars- Knitting cycle. Rachel – variation in guide bars – Knitting cycle. Differentiate Tricot from Rachel. Yarns for warp knitting – common faults in fabrics.

Reference

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

FASHION MERCHANDISING AND MARKETING

Preamble: This course facilitates an understanding of fashion apparel merchandising techniques and orients the learners in the field of costume design. The learners are expected to know the different types of merchandising techniques, retailing and supply chain management in apparel industry.

Unit - I Merchandising

Merchandising – Definition, types .Fashion merchandising – principles and techniques. Merchandiser – role and function.

Unit - II Visual merchandising

Visual merchandising technique – Merchandising Ladder – Factors for Route card – Preparation – Effective Expediting procedures – samples and types of samples, Brand – Definition. Branding strategies.

Unit - III Apparel Merchandising

Apparel Merchandising – principles and techniques. Apparel Merchandising – Interface with production.

Unit - IV Marketing

Marketing – definition – nature and scope. Classification of marketing functions – Buying, Assembling, Standardization and Grading, Packing and Packaging, Storage, Advertising, selling, Buying motives, Consumer decision making. Production planning and development, product line policies and strategies, production mix, factors influencing changes in product mix.

Unit - V

Advertising – types – preparation of advertising for apparels. Advertising media used in apparel marketing. Advertising department and advertising agencies.

Reference

1. Path for merchandising – a step by step approach – Moore Evelyn.C.
2. Inside the Fashion Business – J. Arnow and K.G. Dickerson
3. Fashion Merchandising – Laine stone, Jean A Semples .
4. Marketing Management – Dr. B.K. Chatterjee Jaico, Juice Publishing House, Bombay, 1982
5. Marketing – Principles and method – Philip C.F. and Duncon D.T, Irwin publications.

TECHNOLOGY OF TEXTILE FINISHING

Preamble: This course facilitates an understanding textile finishing in the field of textile industry. The learners are expected to know the chemical finishing, functional finishes and effluent plant in textile industry.

Unit - I Process sequence of textile wet processing

Process sequence of textile wet processing – Basic finishes – Singeing, Desizing, Scouring, Bleaching and Mercerization. Aesthetic finishes – Glazed, Moire, Embossed, Napped finish. Mechanical Finishing – Sanforising – calendaring – Brushing – Decating – Milling

Unit - II Chemical finishing

Chemical finishing - wash and wear finishing. Anti – crease finish, durable finish, Stiff Finish, Denim Finish, stone wash finish. Application of silicones in finishing processes.

Unit - III Functional finishes

Functional finishes - water proof finishes – water repellent finish – flame retardant finish – soil release finish, antimicrobial finish, anti-static finish
Recent Trends : Nano and Microencapsulation finishes.

Unit - IV Eco – friendly processing

Eco – friendly processing – Definition and importance. Study of conventional processing with eco –friendly processing. Enzymes – characteristics, Types. Application of enzymes in textile

Unit - V Effluent plant

Effluent plant – effects from various plants – various process for treating waste water. Effluent Treatment – Pollution created by the processing unit

Reference

1. Shenai V.A. „Technology of Finishing“ Sevek Publications, Mumbai (1996)
2. Manivasaga. N. Treatment of Textile Processing Effluents“, Sakti Publications.
3. Bernard. P. Corbmann“ Textile Fibre to Fabric“ – McGraw Hill, 1983.

COMPUTER AIDED DESIGN

Create the following designs

1. Motifs / small designs.

Embroidery designs for kerchiefs, Neck lines
Chest Prints for T – shirts

2. Children’s Garments

Jabla – different styles
Frocks –different styles
Middi and Tops – different styles

3. Women’s Garments

Churidhar – different styles
Full gowns - different styles
Middi&Tops - different styles
Princess line Dress - different styles
House coats, Aprons, Nighties

4. Men’s Wear

S B Vest
T- Shirt - different styles
Shirts - different styles
Kurtapyjama - different styles

5. Create logos for branded companies.

6. Create label for garments / companies

7. Prepare charts for production planning and scheduling.

PRINTING TECHNOLOGY

Preamble: This course facilitates an understanding of printing techniques and orients the learners in the field of wet processing. The learners are expected to know the printing machine, styles of printing and printing methods in textile industry.

Unit - I

Introduction to printing – definition, Difference between printing and dyeing –preparation of cloth for printing – cotton, wool, silk, viscose rayon, and polyester. Preparation of printing paste – essential ingredients used in printing paste – various thickening agents and its preparation.

Unit - II

Methods of printing – definition, classification – direct, discharge and resist styles, conversion style and crimp style. Foam printing, flock printing, Kalamkari printing, Bubble printing and multi colour printing. After treatments for printed goods.

Unit - III

Printing – Types of Machine for printing, preparation of screen, table and squeezes used for screen-printing. Automatic screen printing, roller printing-faults and its rectification, Rotary printing and transfer printing. Advantages and disadvantages of various methods of printing.

Unit - IV

Stencil printing – preparation of stencils and different stencil techniques used in printing. Block printing – Preparation of hand blocks and application of block on apparel, Tie and Dye techniques – types of tie and dye techniques. Batik printing – Learning the art of batik printing.

Unit - V

Finishing – Temporary, permanent and various types of fibre mercerisation.

Reference

1. Beginners Guide to fabric Dying and printing – By Shirat and Rabirision. P. Technical Books, London, 1982.
2. Technology of Textile Printing, Prayag. R.S., L.R. PrayagDhaund, 1985
3. The Thames &Hudson manual of Textile Printing, story, Joyce Thomas and Hudson, London, 1992.

TEXTILE PROCESSING

Prepare the following

- a. Preparation of soaps and detergents
- b. Preparation of natural and commercial starches
- c. Application of stain removal methods on fabrics
- d. Preparation of samples for processing

- Desizing
- Scouring
- Bleaching
- Mercerising

- e. Dye the given fabric using suitable dye

- Reactive dye (Hot & cold)
- Direct dye
- Sulphur dyes
- Vat dyes
- Disperse dyes
- Acid dyes
- Basic dyes
- Vegetable dyes (any one)

- f. Printing - Preparation of samples for printing- cotton, polyester & silk.

1. Preparation of printing paste.
2. Create designs with block printing – vegetable, wooden block.
3. Create designs with stencil printing – for chest/neck & yoke designs
4. Tie & dye designs – single, double & multi color.
5. Batik printing - single, double & multi color.
6. Print a design using screen printing methods.

ENTREPRENEURIAL DEVELOPMENT

Preamble: This course facilitates an understanding Concept of Entrepreneurship and orients the learners in the field of clothing industry. The learners are expected to know the Project Identification, Institutional service to Entrepreneur and Institutional finance to Entrepreneur in garment industry.

Unit - I

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 – II

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

Unit - III

Institutional service to Entrepreneur – DIC, SIDO,SIC,SISI,SSIC,SIDCO,ITCOT, IIC, KUIC and commercialBank.

Unit –IV

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

Unit –V

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

References

1. Entrepreneurial Development – C.B.Gupta ad N.P. Srinivasan
2. Fundamentals of Entrepreneurship and small Business – RenuAroraad S.KI. Sood
3. Entrepreneurial Development – S.S. Khanka
4. Entrepreneurial Development – p. SaravanaVel
5. Entrepreneurial Development – S.G. Bhanushali
6. Entrepreneurial Development – Dr. N. Ramu

Fashion Illustration

Preamble: This course facilitates an understanding of fashion illustration and orients the learners in the field of fashion design. The learners are expected to know the human anatomy and stylized drawing in fashion industry.

Unit - I

Human anatomy-study of human anatomy in terms of shapes, sizes and movements.

Unit - II

Drawing a flesh figure –drawing a fleshy figure from a stick figure. Dividing the figure into various parts using lines like plumb line, centre front line, princess line, waist line, side seam, arm hole, jewelneckline, panty line, bust line etc.

Unit - III

Drawing the face of the croquic- drawing the face of a fashion figure proportion and placement of facial features, each feature to be dealt separately and faces to be analyzed into croquic face.

Unit - IV

Drawing hairstyles and accessories on the croquic, drawing various fashionable hair styles and accessories on the croquic.

Unit - V

Women's project, Create a mood board-color palette- customer profile-illustration-specification sheet.

Reference

1. The style source book- Judith miller, Stewart, tabori and chang.Newyork
2. Fashion drawing the basic principles by Anne Allen and Julian seaman
3. Design studied by Manmeetsodhia – Kalyani publishers.

FIBRE TO FASHION

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

Unit - I

Textile fiber – Definition – Properties of textile fiber – classification of fiber. Brief study and important properties of cotton, silk, wool rayon and polyester best fibers – Influences of fiber properties on fabric characteristics

Unit - II

Yarn definition, Classification, types

Unit - III

Weave – definition, Classification. Study on basic weaves.

Unit - IV

Fashion – Style – Fad Definition – Sources of Fashion – Terms related to Fashion Industry – Boutique, Collection, Classic Chic Fashion Shows, Fashion Trends and High Fashion.

Unit - V

Role of designer – Researching the market. Design process, sample production. Sources of design inspiration. Types of designer – High fashion designer, Moderate designer, Stylist and freelance designer.

Reference

1. Watson's textile design and colour, GrosichkiliZNewness, Butter worths, London 1980.
2. Watson's advanced textile design, Grosichkli Z Newness, Butter worths, London 1989.
3. Textiles –fibre to fabric, corbmann B.P, Intenationalstudents edition, McGraw Hill book Co, Singapore 1985.
4. Fashion drawing the basic principles by Anne Allen and Julian seaman

APPAREL COSTING

Preamble: This course facilitates an understanding Principles of costing and Elements of costing and orients the learners in the field of clothing industry. The learners are expected to know the Cost estimation ,Cost of product development in garment industry.

Unit - I Principles of costing

Principles of costing – requirement of good costing system – cost unit- types of cost – Fixed cost – Variable cost – Semi variable cost – Conversion cost – Replacement cost – Differential cost – Imputed cost – Sunk cost – Research cost – Development cost – Policy cost – Shutdown cost.

Unit - II Elements of cost

Elements of cost – Direct material cost – Direct expenses – Direct wages – Indirect material cost – Indirect expenses – Indirect labour overheads – Production overhead - Administrative overhead – selling overhead – Distribution overhead – Work cost – Cost of production – Total cost.

Unit - III Cost estimation

Cost estimation of yarn, fabric and components, dyeing, printing and finishing. Cost estimation for cutting, stitching, checking, packing, forwarding, shipping and insurance.

Unit - IV Cost of product development

Cost of product development. Analysis of Design cost – profit design – product profitability. Function of cost control – Apparel manufacturing cost categories – sales cost control – purchasing cost control – production cost control.

Unit -V

Costing of various garments – Children’s wear, Women’s wear, Men's wear.

Reference

1. Apparel Manufacturing Analysis – Solinger Jacob
2. Production Costing – Khanna Publications
3. Development Banks and Enterprises
4. Fashion Design and product Development – Harold Carr/ John

HOME TEXTILE

Preamble: This course facilitates an understanding of furnishing materials and orients the learners in the field of home textile .The learners are expected to know the Floor coverings, Living room furnishing and doors and windows of textile industry.

Unit - I Different types of furnishing materials

Introduction to home textiles, definition, types of home textiles, factors influencing selection of home textiles, recent trends in home textiles.

Unit – II Floor coverings

Floor and wall coverings – definition, types of floor covering – hard, soft and resilient floor coverings and uses and care and maintenance of floor coverings. Wall covering – definition, uses, care and maintenance of wall coverings.

Unit – III Doors and Windows

Door and window treatments – definition and parts of door and windows, curtains and draperies – definition and materials used for curtains and draperies –swags. Accessories – rods hook, rails, racks, curtain tape pins.

Unit - IV Living room furnishing

Soft furnishings for living and bed linen.. Introduction to living and bedroom linens, types – sofa, sofa covers, wall hangings, cushion, cushion covers, upholsteries, bolster and bolster covers, bed sheets, covers, blankets, blankets covers, comfort and comfort covers, bed spreads, mattress and mattress covers, pillow and pillow covers, pads, uses and care.

Unit – V Kitchen and Table Linens

Soft furnishings for kitchen and dining, types of kitchen linens-kitchen towel, aprons, dish cloth, fridge, grinder and mixer covers, mittens, fridge holders – their uses and care. Types of dining –table mat, dish/pot holders, cutlery holder, fruit baskets, hand towels – uses and care. Bathroom linens – types, uses and care.

Reference

1. Jay Diamond, Ellen Diamond – Fashion Apparel Accessories and Home Furnishings.
2. Premavathy Seetharaman, Praveen Pannu – Interior Design and Decoration.
3. Durga Delukar, House hold Textiles and laundry work.

CARE AND MAINTENANCE OF TEXTILES

Preamble: This course facilitates an understanding care and maintenance of textiles and orients the learners in the field of clothing industry. The learners are expected to know the laundry soaps, Laundry equipment and dry cleaning in textile industry.

Unit - I Types of Water

Types of Water - Hard and soft water. Hardness of water - Temporary and permanent hardness. Problems caused by hard water. Methods of softening water. Care and labeling.

Unit - II Soaps and Detergents

Soaps and Detergents - Definition, Manufacturing process, Properties and their cleansing action. Indigenous cleaning agents like Rita nut, Shikkakai and Bran. Dry cleaning – Using Absorbents, using grease solvents.

Unit - III Stiffening agents

Stiffening agents - Natural and commercial starches. Bleaching agents, Bluing agents. Optical brighteners. Additional laundering agents - Acidic, Alkaline and Others. Stain Removal.

Unit - IV Laundry equipment

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

Unit – V Principles of washing

Principles of washing – Suction washing, are washing by kneading, rubbing, scrubbing and squeezing, washing by machine – process details and machine details. Laundering of different fabrics – cotton, linen, woolen, silk, rayon, nylon, and colored fabrics. Special types of laundry – water proof coats, silk ties, leather goods, furs and laces.

References

1. Household Textiles and Laundry Work – DURGA DELUKAR.
2. Fundamentals of Textiles and Their Care – DANTYAGI.S.
3. Shenai V.A. “Technology of Textile Processing” Vol III, V, VII & VIII – Sevl publication Mumbai 1981.
4. Lewis D.N. “Wool Dyeing” SDC Publ. England 1990.

DESIGNING AND CONSTRUCTING MEN'S WEAR

Unit - I

Designing and drafting of shirts

1. Slack Shirt : Features
 - (A) Open Collar
 - (B) Patch Pocket

2. T – Shirt : Features
 - (A) Front Half open – Zip Attached

3. Full Sleeve : Feature
 - (A) Open Collar
 - (B) Patch Packet
 - (C) Full Sleeve with cuff

Unit – II

1. Pleated Trousers : Features
 - (A) Pleats in Front
 - (B) Darts At Back
 - (C) Side Pockets
 - (D) Fly with Buttons or Zip
 - (E) Belt with Adjustable strap.

2. Bell Bottom : Features
 - (A) Bell Bottom

3. Narrow Bottom : Features
 - (A) Narrow Bottom
 - (B) Pleats
 - (C) Hip Pockets

Unit – III

Designing and Drafting Kurates

1. Kalidar – Kurta : Features
 - (A) Kalipiece
 - (B) Side Pocket
 - (C) Stand Collar

(D) Half Open

2. Nehru Kurta : Features
- (A) Half Open
 - (B) Round Neck
 - (C) With or without Pocket
 - (D) Full Sleeve

UNIT – IV

Designing and Drafting Pyjama

1. Pajamas : Features
- (A) Elastic or Tape Attached Waist
 - (B) Fly

UNIT – V

Designing and Drafting Single Breast coat and Night Dress

1. Single Breast Coat : Features
- (A) Coat Collar
 - (B) Coat Sleeves
 - (C) Pocket
2. Night Dress : Features
- (A) Round Neck or Collar Attached
 - (B) Overlap Front
 - (C) Tap Attached

Reference

1. Scientific Grament Quality “by K. M. Hedge & Sons Plot No. 43, Somuwar pet, Poona – 411011.
2. “Easy Cutting” By Juvkar Commercial Tailors Corporation Pvt. Ltd., 166, Dr. Ambedkar Road, Dardar.
3. “Commercial System of Cutting” By Juvkar Commercial Tailors Corporation Pvt. Ltd., 166, Dr. Ambedkar Road, Dardar.
4. “Zerapkar System of Cutting by K. R. Zreapkarnavneet Pub Ltd. Mumbai / Ahmedabad /Nagpur.
5. “Dress Making” by SmtThangamSubramaniam, Bombay Tailoring & Embroidery college, 32, North Part St, Ambatur, Chennai.

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SEMESTER - V

MAJOR ELECTIVE - I

TECHNICAL TEXTILES

Preamble: This course facilitates an understanding technical textiles and orients the learners in the field of textile industry. The learners are expected to know the medical textiles, geo textiles and protective textiles in garment industry.

Unit – I Technical Textiles

Technical Textiles – Definition and Scope. Categories of Technical Textiles

Unit – II Medical Textiles

Medical Textiles – Classification. Fibres used and their properties required. Medical textile Products – Properties, functions.

Unit – III Geo textiles

Geo textiles – Definition, Fibers used in geo textiles –requirement of fibers. Functions of Geo Textiles – separation, Filtration, Drainage, Reinforcement.

Unit - IV Textiles for automotive industry

Textiles for automotive industry. Suitable fibers for automotive industry, Safety devices – Airbags – Materials used- types of fabric – Seat belts – Types, Fabrics used.

Unit - V Brief study on Protective textiles

Brief study on Protective textiles – Bullet Proof fabrics –fire retarding fabrics- high temperature fabrics –High visibility clothing. Fibers used and Properties of fabrics, smart textiles and intelligent textiles.

Reference

1. The design of Textiles for Industrial Application – P.W.Harrison
2. Protective Clothing – Bajaj. P. And Sengupta A.K
3. Textiles : Fibre to fabric – Corbmann. B.P.
4. Performance of Protective Clothing – Johnson. J.S. and Mansdork. S.Z.

TEXTILE TESTING AND QUALITY CONTROL

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

Unit - I Textile Testing and Quality Control

Introduction to Textile Testing and Quality Control – Definition, Importance of Textile testing and quality control, Routine tests performed in Textile Industry.

Unit- II Fibre Analysis

Fibre Analysis Identification of Textile Fibre – Burning, Solvent, Longitudinal and Cross sectional view of Cotton, Wool, Polyester, Nylon, Acrylic fibres. Cotton fibre length, strength- single & bundle strength - Fibre fineness.

Unit - III Yarn Analysis

Yarn Analysis Yarn numbering, wales, courses, density, evenness Yarn strength, Twist and crimp. Colour fastness tests in Textiles – Crocking, Perspiration, Sunlight, Laundering.

Unit - IV Fabric Analysis

Fabric Analysis - Length, Width, Bow, Skewness, Weight, Thickness, Breaking Strength, Abrasion Resistance, Crease Recovery, Stiffness of fabrics and drapability.

Unit - V Test for fibres and Yarn

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

Reference

1. Principles of Textile Testing – BOOTH J.E.
2. Technology of Textile Properties –MANJORCE. A.TAYLOR.
3. Textile Testing and Quality Control – GROUER AND

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SEMESTER - VI

CORE – XIII

APPAREL EXPORT TRADE DOCUMENTATION

Preamble: This course facilitates an understanding of export trade and orients the learners in the field of marketing. The learners are expected to know globalization features, export promotion and institutional finance in apparel industry.

Unit-I

Export marketing of apparel, Global seen, Prospects for Indian apparel in overseas market.

Unit-II

A.E.P.C.'s role in the administration of export entitlement policy export promotional activities of A.E.P.C

Unit-III

Facilities available for garment exporters
Cash compensatory support
Duty drawback

Unit - IV

Export finance through banks
Export credit Guarantee Corporation
Export- Import bank

Unit - V

Marketing - Market development assistance
100% Export Oriented scheme of the government of India
Free trade zone.

Reference

1. Effective Export Marketing of Apparel – Darlie O. Koshy.
2. Export Marketing – A practical guide to exporters – S. Sivaramu.

CLOTHING CARE AND WARDROBE PLANING

Unit – I

Classification and introduction to laundry processes (2) -(i) Wet and (ii) dry cleaning -
Materialsequipments used in laundry.

Unit – II

Bleaches – Classification, commercial products, application of bleaches to various fiber and
fabric.

Unit – III

Wardrobe planning and factors to be considered while selecting clothes for different
agegroups (men and women)

Unit – IV

Additives used in laundry – optical brighteners: bleaching agents vs. fluorescent
whiteners.

Unit – V

Preservation and storage - Apparel and household linen. Disinfections of clothes.

Reference

1. DulkarDurga (1976): Household Textiles and laundry work, Delhi Atmaram and sons.
2. Alexander, R. R (1977) : Textiles products selection, use and care Boston Houghton
Miffin Co.
3. Joseph Marjory (1981) : Introductory Textile Science, New York, Holt, Rinehart and
Winston.

APPAREL PRODUCTION AND QUALITY MANAGEMENT

Preamble: This course facilitates an understanding of structure and sectors of clothing industry and orients the learners in the field of clothing industry. The learners are expected to know the production systems, Production planning and control of raw material in garment industry.

Unit - I

Quality definition – Quality and its necessity . Introduction – Inspection its importance- functions of inspection – systems of inspection – types of inspection – hundred percent inspection – sampling inspection – comparison of 100% inspection and sampling inspection.

Unit - II

Quality control in Pattern Making, Grading. Marking, Stitching and Production Analysis – Co coordinating department activities – Distribution of tickets and Maintenance of records – Establishing Merchandising standards. The quality control of trims and fasteners, sewing thread and accessories.

Unit - III

Management: Meaning and definition, Functions and Principles of Management – Planning,organizing, staffing, directing and controlling, Production and productivity.

Unit - IV

Human resource management: Objectives – Functions and principles of HRD. Recruitment /Training of Supervisors and Executives.

Unit - V

Quality standards, SQC – Control charts – Sampling – its importance and use of sampling techniques. ISO 9000, ISO 14000. Total quality management, quality circles. Marketing channels, Advertising, Sales promotion, Material management – meaning and importance

Reference

1. Apparel Manufacturing Handbook – Jacob Solinger.
2. Modern production /Operations, Management – ElwoodsBuffa and Rakesh
3. Industrial Engineering and Management – O.P..Khanna

TEXTILE TESTING & QUALITY CONTROL

1. Identification of fibre

- Fibre length

2. Identification of yarn

- Yarn count (Pick glass & Beesley balance)
- Yarn twist

3. Identification of fabric

- Thickness testing
- Stiffness testing
- Abrasion testing
- Drape testing
- Crease recovery
- Color fastness – laundry, abrasion (wet, dry), sunlight

FASHION PORTFOLIO

Preamble: This course facilitates an understanding of portfolio presentation and orients the learners in the field of fashion .The learners are expected to know the concept of portfolio development in fashion industry.

Unit –I Concept of Portfolio Development

Concept of Portfolio Development – Environment (Natural Factors), Season, Colour, Culture, Fabric design, Occasion, Presentation Technique.

Unit –II Boards

Study on Mood board, fabric Board, Theme Board, and Story Board

Unit –III Portfolio Presentation of Kid’s Wear

Mood board – Colour Paletter – Customer Profile – fabric development Chart – Design DevelopmentChart – Specification Sheet.

Unit –IV Portfolio Presentation of Women’s Wear

Mood board – Colour Paletter– Customer Profile – fabric development Chart – Design DevelopmentChart – Specification Sheet.

Unit –V Portfolio Presentation of Men’s Wear

Mood board – Colour Paletter – Customer Profile – fabric development Chart – Design DevelopmentChart – Specification Sheet.

Reference

1. Jenny Devis – A Complete Guide to Fashion designing, Abishek, Publications,2007
2. Nirupama Pundir – Fashion Technology Today and tomorrow Mittal Publication, 2007.