



PERIYAR UNIVERSITY

Periyar Palkali Nagar

Salem – 636 011



Department of Textiles and Apparel Design

M.Sc. Degree in Textiles and Apparel Design

(Choice Based Credit System)

Regulations and Syllabus

(Effective from the academic year 2015-2016 and thereafter)

M.Sc Textiles and Apparel Design

Regulations and Syllabus

(Effective from the academic year 2015-2016 and thereafter)

The department was established during the year 2014-2015. The post graduate course offered by the department is M.Sc in Textiles and Apparel Design which gives an in-depth knowledge of designing, export merchandising, fashion retailing, technical textiles, textile testing, professional sewing and construction and computer application in designing. The programme is aimed with the following objectives

- To provide professional education covering the whole spectrum of activities in textiles and apparel
- To train every individual to serve as a Apparel/Textile Designer, Retail and Export Merchandiser, Fashion trend consultant and Quality controllers
- To promote self employment

Duration of the Programme

The two-year postgraduate program in M.Sc. Textiles and Apparel Design consists of four semesters under Choice Based Credit System.

Eligibility for Admission

A pass in B.Sc Costume Design and Fashion, B.Sc. Textiles and Apparel Design, B.Sc Textiles and Fashion Design, B.Sc Fashion Technology, B.Sc Textiles and Clothing or any B.Sc Degree related to Textiles and Fashion Discipline.

Teaching Methodologies

The teaching method will be “Student Centered approach” with traditional and modern approach like problem solving, field trip and demonstration.

Examinations

Semester pattern is followed. The examination for the Semester I and III will be held in November/December and for Semester II and IV will be in the month of April/May.

Scheme for valuation

Evaluation will be done on a continuous basis and will be evaluated four times during the course work. The first evaluation will be in the 7th week, the second in the 11th week, third in the 16th week and the end – semester examination in the 19th week. Evaluation may be by objective type questions, short answers, essays or a combination of these, but the end semester examination is a university theory examination with prescribed question paper pattern.

Scheme for Internal marks	
Theory	Marks
Seminar & Assignment	10 (Each 5 marks)
Internal Tests	10 (Best two out of three tests: Each 5 marks)
Attendance	05
Total	25
Practical	
Internal Tests	25 (Best two out of three tests: Each 12.5 marks)
Attendance	05
Record	10 (Average of marks obtained for each experiment in observation note book)
Total	40

Scheme for Valuation for Dissertation	Marks
Internal	40
External	40
Viva voce	20
Total	100

Question paper Pattern

Duration of the examination - 3 hours

Maximum marks – 75

Part A

Answer all questions 5x5 = 25

(Internal Choice questions)

Part B

Answer all questions 5x10= 50

(Internal Choice questions)

CBCS Structure and Scheme of Examination

S.NO	Paper code	Title of the paper	L	T	P	C	Exam hours	Internal marks	External marks	Total Marks
Part A-Core Papers										
Semester -I										
1	15TADC 01	Research and Design	5	0	0	5	3	25	75	100
2	15TADC 02	Technical Textiles -I	5	0	0	5	3	25	75	100
3	15TADC 03	Indian Textile and Apparel Industry	5	0	0	5	3	25	75	100
4	15TADC 04	Professional Design and construction Practical	0	0	6	4	3	40	60	100
5	15TADC 05	Fashion Draping Practical	0	0	3	2	3	40	60	100
	E1		4	0	0	4				
Semester –II										
6	15TADC 06	Apparel quality standards and implementation	5	0	0	5	3	25	75	100
7	15TADC 07	Technical textiles-II	5	0	0	5	3	25	75	100
8	15TADC 08	Apparel Export Merchandising	5	0	0	5	3	25	75	100
9	15TADC 09	Corel draw Practical	0	0	3	2	3	40	60	100
10	15TADC 10	Fashion Illustration Practical	0	0	4	2	3	40	60	100
	E2		4	0	0	4				
	S1		4	0	0	4				
Semester –III										
11	15TADC 11	Research Methodology and Statistics	5	0	0	5	3	25	75	100
12	15TADC 12	Textile Testing	5	0	0	5	3	25	75	100
13	15TADC 13	Textile Testing Practicals	0	0	5	3	3	40	60	100
14	15TADC 14	Photoshop for Graphic and Fashion design Practical	0	0	3	2	3	40	60	100
15	15TADC 15	Computerized pattern making Practical	0	0	4	2	3	40	60	100
	E3		4	0	0	4				
	S2		4	0	0	4				
Semester –IV										
16	15TADC 16	Retail Merchandising	5	0	0	5	3	25	75	100
17	15TADC 17	Designing with illustrator practical	0	0	6	4	3	40	60	100
18	15TADC 18	Project	0	0	19	4	-	40	60	100
Elective Papers										
1	15TADE 01	Home Textiles	4	0	0	4	3	25	75	100
2	15TADE 02	Intellectual property rights to Textiles and Fashion	4	0	0	4	3	25	75	100
3	15TADE 03	Visual Retail display	4	0	0	4	3	25	75	100
4	15TADE 04	Medical textiles	4	0	0	4	3	25	75	100
5	15TADE 05	Accessory Designing practical	4	0	0	4	3	40	60	100
6	15TADE 06	Clothing Boutique Management	4	0	0	4	3	25	75	100

Supportive Courses										
1	15TADS 01	Embroidery practical	4	0	0	4	3	40	60	100
2	15TADS 02	Basic Fashion Sewing practical	4	0	0	4	3	40	60	100
3	15TADS 03	Salwar Kameez Designing practical	4	0	0	4	3	40	60	100
4	15TADS 04	Personal Grooming	4	0	0	4	3	25	75	100

S.NO	Paper code	Title of the paper	L	T	P	C	Duration	Internal marks	External marks	Total Marks
Part-B										
Self study courses /Internships										
1	15TADSS01	Internship in Apparel Manufacturing unit or Fashion Retail	-	-	-	2	10 days	40	60	100
2	15TADSS02	Draping garments practical	-	-	-	2	5 days	40	60	100
3	15TADSS03	Portfolio Development practical	-	-	-	2	5 days	40	60	100
4	15TADSS04	Fabrics and Trims trend analysis survey	-	-	-	2	5 days	40	60	100
5	15TADSS05	Value Education	30	-	-	2	-	40	60	100

L-Lecture, T-Tutorial, P-Practical, C-Credit

Distribution of Credit Points

The minimum credit requirement for a two- year Master's programme shall be 90 Credits. The break-up of credits for the programme is as follow:

Distribution of Credit Points	
Part-A	Credit
Core Courses	70
Elective Courses	12
Supportive Courses	08
Total	90
Part –B	(Extra Credit)
Self Study Courses	08
Value Education	02
Total	10

Self Study Courses/Internships

Students earn extra credits in self study courses, Self Study plays an important role to sharpen their skills for jobs and business as it is self directed to develop their skills according to their

interests, needs and skill levels, hence the following courses are designed for student's development

- Draping Garments enables students to execute advanced draping techniques to create a creative garment through variety of fabric and draping techniques.
- Portfolio development is a key to employment which demonstrates the students creativity and talent
- Internships provides chance to practice and apply their skills in retail, textile and apparel industries

CORE PAPER -1
RESEARCH AND DESIGN

SUB. CODE: 15TADC01

UNIT-I

Design Research what and why: Brief, Types of brief, Research and its purpose, **Where do you find Design research:** Choosing a theme or concept, primary sources and secondary sources, sources of inspiration

UNIT-II

How to compile design research: The sketch book, drawing, collage, juxtaposition, deconstruction, cross-referencing, analysis of research, focus on key elements, Mood, story and concept boards

UNIT-III

Three dimensional approaches to research: Model and drape, fiber and fabric qualities, recycled garment manipulation

UNIT-IV

Designing from your research: Bridging the gap, Design development elements, ideas generating exercise, development and refinement of individual garments, selecting and editing ideas to form a collection

UNIT-V

Communicating ideas: Sketching and design drawing, Templates, Collage, working drawings, art materials, layout and composition, illustration.

References

1. Basics Fashion Design 01: Research and Design, *Simon Seivewright, A&C Black, 2012*
2. Basics Fashion Design 04: Developing a Collection, *Elinor Renfrew, Colin Renfrew, AVA Publishing, 2009*
3. Doing Research in Fashion and Dress: An Introduction to Qualitative Methods, *Yuniya Kawamura, Berg, 2011*
4. Basics Fashion Design 05: Fashion Drawing, *John Hopkins, AVA Publishing, 2009*
5. Fashion Design Research, *Ezinma Mbonu, Laurence King Publishing, 2014*

CORE PAPER -2
TECHNICAL TEXTILES – I

SUB. CODE: 15TADC02

UNIT I

Introduction, definition and scope of technical textiles, developments in fibers and applications of technical textiles – products and their uses.

UNIT II

Technical fibers - Conventional fibers, High strength and high modulus organic fibers, High chemical- and combustion-resistant organic fibers, High performance inorganic fibers, Ultra-fine and novelty fibers.

UNIT III

Finishing of technical textiles: Mechanical finishes- calendaring, raising and cropping, compressive shrinkage, and heat setting. Chemical processes- durable flame retardants, water repellent, anti static, antimicrobial and antifungal finishes.

Coatings- chemicals used in coatings and method of applications.

UNIT IV

Heat and flame protection: Thermal behavior of fibers and fibers suitable for thermal protection.

Survival textiles: Short term survival and long term survival, fibers suitable for suitable clothing against chemical, microbiological and radiation hazards.

UNIT V

Waterproof breathable fabrics - Introduction, types of waterproof breathable fabrics - densely woven fabrics, membranes- types of membranes, methods of incorporation of membranes, Coatings –types of coatings, and method of production.

Biomimetics - their uses and its applications.

References

1. Handbook of Technical Textile, *A.R.Horrocks and S.C.Anand, Woodhead Publishing Ltd, 2000*
2. Wellington Sears Handbook of Industrial Textiles, *Sabita Adanur, CRC Press, 1995*

CORE PAPER -3

INDIAN TEXTILE AND APPAREL INDUSTRY

SUB. CODE: 15TADC03

UNIT –I

Overview and Growth of Indian Textile Industry, Current position of textile industry in India, Vision India, Structure of Indian textile industry, India's major competitors in the world, challenges faced by textile industry in India, Latest government policies and schemes for promoting textile industry in India

UNIT-II

Cotton Textile Industry: Overview of cotton industry in India, key markets and export destinations, Production, Area and Productivity, Cotton consumption, Cotton Trade, cotton prices, Major cotton producing countries. **Sericulture Industry:** Introduction, world silk production, Production and consumption of raw silk, performance of sericulture sector, Employment generation, Recent schemes and programmes of the central silk board, Research and Development.

UNIT-III

Jute and jute Textile Industry: Raw jute scenario, production of raw jute goods, Domestic consumption of jute goods, Export performance, Import of Raw jute and jute goods, Regulatory organizations in jute sector, major areas of Research in jute sector, Application of jute in technical textiles. **Woolen industry:** Production and consumption, wool producing states, Import and export of wool, Research and development, constraints faced by wool sector, Central wool development board, Schemes for wool sector, future plans in woolen sector

UNIT-IV

Technical textiles: Growth enablers of technical textiles sector, scheme for growth and development of technical textiles. **Manmade and filament yarn industry:** Production, Import and Export, growth. **Textiles and Clothing industry:** Recent import scenario and export performance.

UNIT-V

Research Associations: ATIRA, BTRA, SITRA, NITRA, MANTRA, SASMIRA, IJIRA, WRA, Recent Trade and Investment opportunities in Apparel and Textiles.

References

1. India's Textile and Apparel Industry: Growth Potential and Trade and Investment Opportunities, Sundar Shetty, U.S. International Trade Commission. 2001
2. An introduction to sericulture, 2/E, Ganga and j.sulochana chetty, Oxford and IBH Publishing, 1997
3. www.citiindia.com
4. Ministry of Textiles: texmin.nic.in

CORE PAPER -4
PROFESSIONAL DESIGN AND CONSTRUCTION PRACTICAL
SUB. CODE: 15TADC04

Design Process: Sketching Design ideas, Translate concept to product, prepare portfolio based on a theme

Planning: Sourcing Fabrics and Trims for garment details

Pattern development: Drafting, Cutting patterns to individual measurements for custom fitting

Costing: understanding the cost of the product

Exercises

1. Fashionable and Trend setting Design

Women's wear

1. Salwar or Churidhar
2. Kurta or kameez
3. Long gown
4. Ladies tops

Men's wear

1. Kurta
2. Pyjama

2. Functional Design

1. Formal pant
2. Full Sleeve Shirt

References

1. Metric Pattern Cutting for Menswear, *Winifred Aldrich, John Wiley & Sons, 2012*
2. Pattern Cutting for Men's Costume, *Elizabeth Friendship, Bloomsbury Publishing, 2014*
3. Metric Pattern Cutting for Women's Wear, *Winifred Aldrich, John Wiley & Sons, 2009*
4. Patternmaking for Fashion Design 4/E, *Helen Joseph, Pearson Education, 2011*

CORE PAPER -5
FASHION DRAPING PRACTICAL
SUB. CODE: 15TADC05

EXERCISES

1. Basic preparation and basic pattern:

Draping, Marking and trueing for basic Back, front, skirt and trouser

2. Variation in Darts:

Front bodice with underarm dart. Back bodice with Neckline dart, Waist line dart, Dart at waist line and center front, The French dart, Double French dart, Flange dart, Neckline dart, Bust line dart at center front and Armhole dart

3. Pleats, darts, tucks and gathers, Neckline variations, Armhole variations, Waistline variations

4. Yokes

Fitted midriff, Bodice yoke, Shirt yoke, Hip yoke

5. Collars

Mandarin, Band, Convertible, Shirt and Peter pan collar

6. Variations in skirt

Tapered skirt, Eased skirt, Dirndl skirt, Dome skirt, flared skirt and variations in flared skirt, Peg skirt

Sarong skirt and Pleated skirt

7. Princess dress

References

1. Draping for Fashion Design, *Jaffe, Jaffe Hilde, Pearson Education India, 2009*
2. Draping: The Complete Course, *Karolyn Kiisel, Laurence King Publishing, 2013*
3. Draping for Apparel Design, *Helen Joseph-Armstrong, Bloomsbury Academic, 2013*

CORE PAPER -6

APPAREL QUALITY STANDARDS AND IMPLEMENTATION

SUB. CODE: 15TADC06

UNIT I

Definition- Quality, Quality control, Quality Assurance, Introduction to quality standards, importance, benefits, levels and sources of standards, ISO 9000 & 14000 series standards, SA 8000, Total quality Management, Eco Labeling & OEKO Tex 100 standards. .

UNIT II

Quality control of fabrics – Types of defects in fabrics – major and minor faults, Fabric inspection - 4 point system, 10 point system. Garment defects- cutting defects, sewing defects, assembly defects, pressing, finishing and packaging defects. Quality control of trims and accessories.

UNIT III

Eco specification & restrictions in apparels and textiles - dry cleaning using ozone depleting chemicals, PH values, formaldehyde contents, heavy metal contents, Pesticides and herbicides, azo dye stuffs, Nickel, Penta chloro phenols, color fastness, brighteners, softening agents etc.

UNIT IV

Starting a quality control program, implementation of quality systems in production line, product specifications and analysis using analytical tools. Quality management through Inspection and testing, seven quality tools.

UNIT V

Quality costs and customer returns, Inspection procedures-no inspection, 100% inspection, statistical sampling and AQL standards. Packing quality.

REFERENCES:

1. Managing quality in apparel industry, *Pradeep V Mehta, Satish K. Bhardwaj, NIFT Publications, New Age International, 1998*
2. Texincon, Volume 5-6, An Introduction to quality control for the apparel industry, *Mehta P V, Marcel Dekker, National information center for textile and allied subject, 1993*
3. Fabric testing, *jinlian Hu, woodhead publishing, 2008*
4. Physical testing and quality control, *K. Slater, Vol 123, No. 1/2/3 Textile Institute, 1993*
5. Quality management in the clothing and textile industries, *A.J. Chutter, Textile institute, 2002*

CORE PAPER -7

TECHNICAL TEXTILES – II

SUB. CODE: 15TADC07

UNIT I

Agro textiles - Introduction, need, fibers used for agro textiles, properties required for agro textiles manufacturing processes of agro textiles , role of nonwovens in agro textiles, applications of agro textiles and their uses. Sports textiles – fibers and fabrics used for sports textiles, applications of sports textiles and their uses.

UNIT II

Geotextiles - 1 Introduction to geotextiles, Geosynthetics, fibers used in geotextiles, Essential properties of geotextiles –mechanical response, filtration ability and chemical resistance, functions of geotextiles - separation, drainage, filtration, soil reinforcement and protection.

UNIT III

Textiles in Transportation – Introduction, fibers used in transportation, fiber /plastic composites, textiles in passengers cars – interior design, requirements – fiber selection, yarn type and fabric structure, other parts of car interior – seat belts, airbags, car seat covers and headliners, textiles in road vehicles, rail applications, Textiles in aircraft, marine applications, future prospects of transportation textiles.

UNIT IV

Textiles in military and defense –Introduction, textiles for protection, thermal insulation materials, water proof breathable materials, military combat clothing systems, camouflage concealment and deception, flame retardant, heat protective textiles, ballistic protective materials, biological and chemical protection.

UNIT V

Smart textiles- components, Classification – active smart, passive smart and ultra smart textiles and their applications. Intelligent Textiles – phase change materials, shape memory polymers, chromic and conductive materials and their applications.

References

1. Handbook of Technical Textile, *A.R.Horrocks and S.C.Anand, Woodhead Publishing Ltd,2000*
2. Wellington Sears Handbook of Industrial Textiles, *Sabita Adanur, CRC Press, 1995*

CORE PAPER -8

APPAREL EXPORT MERCHANDISING

SUB. CODE: 15TADC08

UNIT-I

Introduction to Merchandising, Merchandising Terminology, Structure and Function of merchandising, Types of Merchandising, Export house and buying house, Working process of buying house

UNIT-II

Qualities of merchandiser, Responsibilities of merchandiser in apparel industry from Buyer contact to merchandise delivery, Sampling-Samples and its types - Approvals –Time and Action calendar Preparation, Procurement and execution of garment export order

UNIT-III

Importance of Technical specifications or TECH PACKS-Interpretation and analysis, Costing-definition, Need for Costing principles, how to evaluate costing for a garment, Trial costing for men's Knitted t-shirt, Mens long sleeve woven shirt, woven basic pants and Ladies T-shirt

UNIT-IV

Quality control-Testing and Inspection, types of inspection, Acceptance quality level and inspection parties. Understanding Import & Export Operation, International commercial terms and L/C Procedures in Apparel Industry

UNIT-V

Export promotion councils and activities: HEPC, AEPC, TEXPROCIL, SRTEPC, ISEPC, Woollens Export Promotion Council, CEPC, EPCH, PDEXCIL and Wool Industry Export Promotion Council

References

1. Apparel Merchandising, *Reashad Bin Kabir, Saiful Islam Tanvi, Lulu.com*
2. Apparel Merchandising: The Line Starts Here, *Jeremy A. Rosenau, David L. Wilson, A&C Black, 2014*
3. Apparel Manufacturing: Sewn Product Analysis, 4/E, *Glock Ruth E., Glock, Pearson Education India, 2005*
4. Costing for the Fashion Industry, *Michael Jeffrey, Nathalie Evans, Berg, 2011*
5. Indispensable Facets of Apparel Merchandising, *Saiful Islam Tanvir, Tanvir Saiful Islam, LAP Lambert Academic Publishing, 2014*
6. Quality Assurance for Textiles and Apparel 2nd Edition, *Sara J. Kadolph, Bloomsbury Academic, 2007*

CORE PAPER -9

COREL DRAW PRACTICAL

SUB. CODE: 15TADC09

EXERCISE I

Introduction to COREL DRAW: Corel Draw and uses, About Tools and menu bar, How to create a new Document, Corel Draw Tool and functions, Shortcut keys and uses, Importing and exporting images, New page setup and size making, Saving and printing the file, Convert Corel draw to jpeg format and AI format, what is GIF format, CRD format, JPEF format, PNG format, **Print Publishing:** Print preview and setup, print the designs, Rulers, grid guidelines and wire Frame

EXERCISE II

Tracing and Drawing: Tracing and drawing with pen tool and freehand tool, Adjusting Anchor points with pen tool and shape tool, Adding Outline stroke and sizes, Copy and paste objects, shaping the objects, Weld, trim, intersect, simplify, front minus back, back minus front, Duplicate the object, How to Draw the men's and women's silhouette .How to give outline for the object, Increasing and decreasing the outline point, **Color palette:** Uniform fill, Color the objects, Color models-Rgb and cmyk colors,creating, Opening and editing custom color palettes,Palette Editing, Make color swatches, Texture fill dialog, Pattern fill dialog, Gradient effect with fountain fill

EXERCISE III

Align and distribution: Align object to art board, Align object to other object, **Repeat Settings:** Transformation, Position the object, Rotate the object, Scaling and sizing the object, **Layer management:** To forward the object, To back the object, **Effects:** Color balance, Hue saturation, Brightness and contrast, Contouring the objects, Power clip the images, extract and edit the images, Bitmapping the image and giving effects.

EXERCISE IV

Character: Work with Text, Typography and uses, Managing sizes, Adding and removing fonts, Typography design, **Graphics:** Draw or trace flowers and objects, Draw vector graphics and add colors, Draw graphics mix with Photoshop layers, Draw typography graphics and fix it to silhouettes.

EXERCISE V

Designing: Designing garments, Draw men's shirt with details, Draw women's Kutras with details, Draw trousers with details, Coloring the garment, Draw accessories like belt shoes, caps buttons, bows and buckles

References

1. CorelDraw 12: The Official Guide, *Steve Bain, Dreamtech press, 2004*

CORE PAPER -10
FASHION ILLUSTRATION PRACTICAL
SUB. CODE: 15TADC10

EXERCISES

1. Introduction to fashion illustration,
2. Different poses of stick figures block figures and flesh figures.
3. Different types of lines, checks and shapes on a garment.
4. Costumes on silhouettes. Single, two and three dimension of figures with pattern, design and texture
5. Mix matching costumes on a silhouette
6. Design the different kinds of figures: normal, tall and thin, tall and thick, short and thin, short and heavy and athletes.
7. Practice on: pleats, smokes, gathering and ruffles.
8. Fashion show costumes: party wear, occasional wear, ethic and trendy wears.
9. Using different mediums of colors on a costume match the colors with colors complexion.
10. Design journal of a traditional wear to high fashion.
11. Designing garment with a theme of spring, autumn and summer seasons.
12. Design a garment for the person having figure problems.
13. Hair styles and structures of hands & legs.
14. Designing of accessories and ornaments.
15. Create new designs for a bride groom of tamilnadu, Karnataka, Andhra and north India.
16. Design a new uniform to a cricket team.

References

1. Understanding Fashion, *E. Rouse, Wiley, 1991*
2. New Fashion Figure Templates, *Patrick John Ireland, Batsford, 2007*
3. Figure Drawing for Fashion Design, *Elisabetta Drudi, Pepin Press, 2010*
4. Inside Fashion Design, *Sharon Lee Tate Longman, 1999*
5. 20th-century Fashion: The Complete Sourcebook, *John Peacock, Thames and Hudson, 1993*

6. Fashion Illustration: Inspiration and technique, *Anna kipper, David and Charles, 2011*
7. Essential Fashion Illustration: Poses, *Maite Lafuente, Rockport publishers, 2007*
8. Contemporary Fashion Illustration Techniques, *Naoki Watanabe, Rockport Publishers, 2009*

CORE PAPER -11

RESEARCH METHODOLOGY AND STATISTICS

SUB. CODE: 15TADC11

UNIT I

Fundamental Concepts of Research -Meaning, definition, types of research – significance of research – research process, Defining the research problem, Sources, Identification, Selection and statement, Review of Literature.

UNIT II

Research Design/Proposal - Research Design – Meaning, Types of Research Design, Basic principles of experimental designs, Developing a research Plan. Sampling – Census and sample survey, steps in sampling design, criteria for selecting a sampling procedure, characteristics of a good sample design, different types of sample design.

UNIT III

Research Methods And Tools - Methods of data collection – observation, questionnaire, Interview. Data Processing – Collection, Classification, Tabulation, Graphical representation and data analysis.

UNIT IV

Report Writing - Research Report – Format of research report, main body of the report, references and appendices, style of writing, typing the report, pagination, tables and figures, bibliography, footnotes, margins, quotations, evaluating the report.

UNIT V

Statistics - Meaning and scope of statistics, role of statistics in research, measures of central tendency and dispersion. Co- efficient of Correlation and its Interpretation, Rank Correlation, Regression equation, Application of Chi – Square test, ANOVA test.

References

1. Research Methodology: Methods and Techniques, *C R Kothari, New Age International (P) Ltd, Delhi, 2011.*

2. Introduction to Research in Education, *Donald Ary, Lucy Jacobs, Asghar Razavieh, Christine Sorensen, Cengage Learning, 2009*
3. Research Methodology: An Introduction, *Wayne Goddard, Stuart Melville, Jut and Company Ltd, 2004*
4. Research Methodology and Statistical Techniques, *Santosh Gupta, Deep and Deep Publications, 1999*
5. An Introduction to Statistical Methods, *S P Gupta, Vikas publishing House, Delhi, 2009.*
6. Statistical Method- An Introductory text. *J. Medo, New Age publishers, Delhi, 2005.*

CORE PAPER -12

TEXTILE TESTING

SUB. CODE: 15TADC12

UNIT I

Textile testing and its objectives: Introduction to standards – Importance, types, International Quality parameters and standards like AATCC, ASTM, BIS etc. **Moisture and Humidity** – its importance and relationship to textiles, Standard atmospheric conditions, Measurement of humidity – Wet and Dry bulb hygrometer, Sling hygrometer, Measurement of moisture regain and content by Conditioning oven and Shirley moisturemeter

UNIT II

Fibre testing – Fibre length and its importance; Methods of measuring fibre length - Baer sorter; Fibre fineness – Sheffield method and ATIRA fibre fineness tester; Fibre Maturity – Caustic soda swelling method; Fibre strength – Measurement of strength using Pressley tester and Stelometer, Fibre Quality Index; Analysis of trash and lint content in cotton by Shirley trash analyzer

UNIT III

Yarn testing – Determination of yarn count, Instruments used for determination of count by Quadrant balance and Knowle's balance; Twist and its significance – Estimation of twist by Twist contraction method and Take – up twist tester; Measurement of yarn strength using CRL, CRT and CRE principles, CSP determination, Study of instruments – Single thread strength tester and Lea strength tester; Yarn evenness – Random and periodic variations, Index of irregularity, Yarn appearance board and ASTM standards, Uster Evenness tester, Uster Classimat; Influence of yarn hairiness on fabric quality

UNIT IV

Fabric testing – Determination of fabric weight; Count determination; Importance of cover factor; Crimp properties – Shirley crimp tester; Measurement of thickness by Shirley thickness gauge; Measurement of crease recovery – Shirley crease recovery tester; Abrasion resistance – serviceability, wear and measurement by Martindale abrasion tester; Fabric strength – Tensile, Tearing and Bursting strength testers; Assessment of pilling in fabric – ICI pill box tester,

Measurement of fabric drape; Objective measurement of fabric handle – Kawabata Evaluation Systems for Fabric (KESF) and Fabric Assurance by Simple Testing (FAST) testers

UNIT V

Comfort related properties - Assessment of air permeability, water and vapour transmission, heat transmission; Colour Fastness – Importance and factors affecting colour fastness, Colour fastness to Washing, Sunlight, Crocking, Pressing and Perspiration, Grey scales and ratings, Study on Computer Colour Matching

References:

1. Principles of Textile Testing, *J.E.Booth*, 3rd Edition 1986, CBS Publishers & Distributors, 1996
2. Textile Testing, *P.Angappan and R.Gopalakrishnan*, 4th revised edition, SSMITT Students Co-operative Stores, Komarapalayam.
3. Hand Book of Textile Testing and Quality Control, *E.B.Groover and D.S.Hamby*, 1st U.S. Edition, 1960, Wiley Eastern Reprint 1988, Published by Mohinder Singh Sejwal (for Wiley Eastern Limited), New Delhi, India.
4. Hand Book of methods of test for cotton fibers, yarns and fabrics, *V.S.Sundaram and R.L.N.Iyengar*, CTRL, Mumbai, 1969
5. Methods of Test for Textiles – *B.S.Handbook No.12*, 1974, British Standards Institution, New Delhi, India

CORE PAPER -13

TEXTILE TESTING PRACTICALS

SUB. CODE: 15TADC13

EXERCISES

1. Preparation of Baer sorter diagram and determination of the following:
 - (i) Mean length
 - (ii) Effective length
 - (iii) Short fibers percentage
 - (iv) Dispersion percentage
2. Determination of evenness and imperfection of the given yarn and compare the results with Uster statistics and study the spectrogram and irregularity trace to determine type of irregularity.
3. Determination of strength of the yarn using single yarn strength tester and lea strength tester.

4. Determination of crimp percentage and corrected count with the help of crimp tester.
5. Determination of Tensile strength of the given fabric.
6. Determination of Stiffness of the given fabric.
7. Determination of Abrasion resistance of the given fabric.
8. Determination of Crease recovery of the given fabric.
9. Determination of Drape of the given fabric.
10. Determination of Bursting Strength of the given fabric.
11. Determination of Tearing Strength of the given fabric.
12. Determination of Fabric Shrinkage
13. Testing the Colour Fastness of the given fabric by Crock meter.
14. Testing the Colour Fastness of the given fabric by Perspirometer.
15. Testing the Colour Fastness of the given fabric by Launderometer.
16. Testing the Colour Fastness of the given fabric by light.

CORE PAPER -14

PHOTOSHOP FOR GRAPHIC AND FASHION DESIGN PRACTICAL

SUB. CODE: 15TADC14

Exercise I

Introduction to Photoshop: Photoshop need for Fashion industry, Work Space Overview

Top Menu Bar, How to create a new Document, Photo Shop Tool Palette, Shortcut keys and uses

Exercise II

Preparing Files and creating a color Palette, Scanning:

Basics, scanning and aligning fabrics

Layers: Use and Function in Design, Exercises on Layers

Masks: How to use mask in Adobe Photoshop, Channels: Working with channels

Exercise III

Filters: Filters and uses, working with filters, giving effects to pictures

Brushes Presets-Brushes and uses, Add New brushes

Path: Path and uses, working with Paths

Character-Work with Text, Typography and uses

Exercise IV

Understanding Swatches, Working with Repeat of a pattern

Pattern: Define, Create woven patterns

Print Repeat: Fundamentals and Creating Print Repeat

Graphics: Preparing Graphics, How to make Graphics

Exercise V

Forecasting and trend analysis: Prepare Mood board and story board and making graphics based on the mood board and story board.

References

1. Rendering Fashion, fabrics and prints, *Pearson education, 2007*
2. *Adobe Photoshop for Textile Design, Frederick Chipkin, Origin inc, 2012*

CORE PAPER -15

COMPUTERIZED PATTERN MAKING PRACTICAL

SUB. CODE: 15TADC15

Prepare pattern making, Grading and marker planning for the following garments
Children's wear

Yoke frock

Baba suit

Summer frock

Skirt and tops

Women's wear

Salwar Kameez

Tops

Nightie

Princess line dress

Men's wear

Slack shirt

Full sleeve T-Shirt

Bermuda

Pleated trouser

Bell bottom

References

1. Patternmaking for Fashion Design, *Helen Joseph Armstrong, Pearson Education, 2011*
2. Patternmaking: a comprehensive reference for fashion design, *Sylvia Rosen, Pearson Prentice Hall, 2004*
3. Metric Pattern Cutting for Children's Wear and Babywear, *Winifred Aldrich, John Wiley & Sons, 2012*
4. Metric Pattern Cutting for Menswear, *Winifred Aldrich, John Wiley & Sons, 2012*

CORE PAPER -16

RETAIL MERCHANDISING

SUB. CODE: 15TADC16

UNIT- I

Introduction to fashion retailing, classification of retailers, organizational structures, fashion retailing organization charts, fashion consumer identification and analysis-consumer behavior, consumer assessment theories and consumer analysis

UNIT-II

Merchandise Planning: Concept of Merchandise planning, implications of merchandise planning, Process of merchandise planning, determining the merchandise requirements

Assortment planning: Forecasting methods of clothing assortment planning, Forecasting product selection, Forecasting order quantity, forecasting short term sales- sales forecasting methods

UNIT-III

Sourcing: Sourcing defined, what needs to be sourced, different ways of buying a garment, selecting and interacting with merchandise sources, evaluating merchandise, Negotiating with vendor, establishing vendor relations, analyzing vendor performance, concluding purchases, Receiving and stocking merchandise, Re ordering merchandise, Re-evaluating on a regular basis

UNIT-IV

Logistics: Performance goals, supply chain management, Order processing and fulfillment, Transportation and warehousing, customer transactions and customer service.

Inventory Management and control: Planning and controlling stock levels, ordering, allocation and replenishment, warehousing and distribution centers, Retailers tasks, inventory levels, merchandise security, reverse logistics and inventory analysis

UNIT-V

Technology in Retailing: Role of technology in retailing, technologies in retailing, impact of technology on relationships in retailing

References

1. Retailing Management: Text and Cases, *Pradhan, Tata McGraw-Hill Education, 2009*
2. Retail Merchandising, *Pradhan, Tata McGraw-Hill Education, 2009*
3. Fashion Retailing: A Multi-Channel Approach, *Diamond, Pearson education India, 2007*
4. Basics of retail Management, *Dr. Narendra Kumar, Dr. Mukesh Dhunna, Divyaa Sharma, Vk Publications, 2011*
5. Retail Management: A Strategic Approach, *Berman Barry, Pearson Education India, 2011*
6. Retail Management, *S.C. Bhatia, Atlantic Publishers & Dist., 2008*

CORE PAPER -17

DESIGNING WITH ILLUSTRATOR PRACTICAL

SUB. CODE: 15TADC17

Exercise I

Introduction to adobe Illustrator, Adobe Illustrator need for Fashion industry, Work Space Overview: About Tools and menu bar, How to create a new Document, Adobe Illustrator Tool and functions, Shortcut keys and uses, Importing and exporting images, Art board setup and size making, saving and printing the file in Adobe PDF format, GIF format, Illustrator format, JPEF format and PNG format

Exercise II

Drawing: Drawing, Adjusting Anchor points with pen tool, segment, Adding Converting raster to vector, Outline stroke and sizes, Copy and paste objects

Brushes: Drawing and editing brushed paths, Add and removing brushes, Control brush sizes, Managing Brush libraries

Tracing artwork: Lock and unlock objects, Tracing with pen tool, Tracing with the auto trace tool
Path: Elements of paths, Selecting and moving paths

Layers: Layers and uses, working with Layers and sub layers, Group and ungrouping layers, Clipping mask and release

Pathfinder: Add, subtract, intersect, overlapping the object, Divide, trim, merge, crop the object

Align and distribution: Align object to art board, Align object to other object

Exercise III

Color: Coloring the object, Cmyk and rgb colors, Conversion of rgb to cmyk, Blending modes, Using the color palette, Color wheels model, Pantone colors and numbers, pick color from images

Gradient effect: Giving gradient effects to objects

Swatches: swatch libraries, moving swatches to Swatches palette, Swatches palette loading colors from other files

Filters: Filters and uses, working with filters, giving effects to pictures

Character: Work with Text, Typography and uses, Managing sizes, Adding and removing fonts
Typography design

Exercise IV

Transform: Scale strokes and effects, Transform pattern, Transform object only

Symbols: Add and removing symbols, Designs using symbols

Creating stripe Repeat: How to make the pattern, Fill a page with pattern

Creating Print Repeat: How to make the Repeat, How to make effects, add additional shapes to print

Color Combination: Generate print color way, Generate stripe color way

Exercise V

Designing Garments: Draw men's shirt with details, Draw women's Kutras with details, Draw trousers with details, Coloring the garment, Draw accessories like belt shoes, caps buttons, bows and buckles

Graphics:

Draw or trace flowers and objects, Draw vector graphics and add colors, Draw graphics mix with Photoshop layers, Draw typography graphics and fix it to silhouettes.

References

1. Fashion Designer's Handbook for Adobe Illustrator, *Marianne Centner, Frances Vereker, John Wiley & Sons, 2011.*
2. Adobe Illustrator CS6 on Demand, *Perspection Inc., Steve Johnson, Que Publishing, 2012*
3. Adobe for Fashion: Illustrator CS6, *Robin Schneider, Lulu.com, 2012*

ELECTIVE PAPER-1

HOME TEXTILES

SUB. CODE: 15TADE01

UNIT I

Introduction to Home Textiles: Definition, Types of Home textiles -Woven and non-woven's, Factors influencing selection of Home Textiles, Recent trends in Home Textiles

UNIT II

Floor and wall coverings: Definition of floor covering, Types of floor covering - hard, soft, and resilient floor coverings, Uses and care of floor covering, Definition of wall covering, Uses and care of wall coverings

UNIT III

Door and window treatments: Definition and parts of door and windows, Definition – Curtains and Draperies, Materials used for Curtains and Draperies, Types of curtains - Draw, tailored, pleated, cafe curtains, three tire curtains, Type of draperies – swags, Accessories - rods hook, rails, racks, curtain tape pins

UNIT IV

Soft furnishing. For living and Bedroom: Definition for Living and Bedroom linens, Types of living and bedroom linens, Sofa, sofa covers, Wall hangings, Cushion/cushion covers, Upholsteries, Bolster and bolster covers, Bed sheets, covers, Blankets, blanket covers, Comfort and comfort covers, Bed spreads, Mattress and mattress covers, Pillow and pillow covers, Pads, Uses and care advantages and disadvantages

UNIT V

Soft furnishing for Kitchen, Dining and Bathroom: Definition, Types of kitchen linens, Dish cloth, hand towels, Fridge, mixer and grinder covers, Their uses and care, Definition for dining, Bathroom linens – types, Factors affecting the selection of table and bathroom linens, Use and care

References

1. Home Comforts the Art and Science Keeping house, *Cheryl Mendelson, Simon and Schuster, 2005*
2. The Ultimate Sewing Book, Over 200 sewing ideas for you & your home, *Maggi McCormick Gordon, Collins & Brown, 2002*
3. Sew- no- more: Home Decor, *Leisure Arts staff, Leisure Arts, Incorporated, 1995*
4. Mary Mulari Appliques with Style: Designs and Techniques with Fresh Attitude, *Mary Mulari, Krause Publications, 1998*

ELECTIVE PAPER-2

INTELLECTUAL PROPERTY RIGHTS TO TEXTILES AND FASHION

SUB. CODE: 15TAE02

UNIT-I

Introduction to Intellectual Property rights: What is Intellectual property rights, Objectives of IP law, Legal rights for fashion designers- Types of Rights, Fashion design piracy

UNIT-II

Industrial Design protection -What is Design Act 2000, Objective of design act, understanding design act, Criteria and qualification for registration, Duration of the registration of design, Cost of filing design, Penalty of the piracy of registered design, Procedure for registration of design.

UNIT-III

Copy Right Protection :Understanding copy right act for fashion design, Requirements of copyright protection, who owns the copy right at work, Copy right and Design overlap, Difference between copy right and design law, Nature and scope of protection, Terms of protection.

UNIT-IV

Trademark Protection for fashion Design: What is trade mark, Types of trade mark, how trade mark protects the brand name, what trade mark done in fashion, Duration of Registration.

UNIT-V

Geographical indication: What is GI? Protection of GI, Examples of GI in textiles and clothing in India, why do geographical locations need protection, How GI is protected.

Patent: What is patent? Why patent right, who can apply for patent, Types of patent, Scope of protection.

References

1. Information Booklet for Applicants for Registration of Designs-Department of industrial policy and promotion, Ministry of commerce and industry, Government of India.
2. Managing Intellectual Property: The Strategic Imperative, *Vinod V. Sople, PHI Learning Pvt. Ltd., 2006*
3. Using Design Protection in the Fashion Industry, *Ulla Vad Lane-Rowley, Wiley, 1997*
4. Fashion Law: A Guide for Designers, Fashion Executives, and Attorneys, *Guillermo C. Jimenez, Barbara Kolsun, A&C Black, 2014*

ELECTIVE PAPER-3

VISUAL RETAIL DISPLAY

SUB. CODE: 15TADE03

UNIT-I

Essentials of Visual Display: What is Visual Merchandising? How and where visual merchandisers work. **Display Design Basics**-Line, composition, Texture, Colour and Lighting

UNIT-II

Exterior Presentation: Exterior Signs, Marquees, Banners, Awnings, Walks and Entries and Landscaping

UNIT-III

Interior Presentation: Interior display in selling area and sales support area, Areas of display- Windows, Highpoint, Focal point, Nesting Tables, Staircase landings, Step raisers, Lift area, Dangles, Cashcounters, pillars and entrances

UNIT-IV

Window Display: Scope of Window display, Window display designing process, types of window display, how to create eye-catching and innovative displays that will draw the customer into the retailer and prove the success of your window design

UNIT-V

Signage, Fixtures and Props: Fixtures: Types of fixtures, selecting display fixtures, Signage: What signage can do for customer, retailer, Vendor and community, various types of signs, Props: Advantages and types of props.

Common errors in creating display, Promotional and seasonal display techniques

References

Visual Merchandising, *Swati Bhalla, Anuraag S, Tata McGraw-Hill Education, 2010*

Visual Merchandising for Fashion, *Sarah Bailey, Jonathan Baker, A&C Black, 2014*

Fashion Retailing: A Multi-Channel Approach, *Diamond, Pearson Education India, 2007*

Retail Product Management: Buying and merchandising, *Rosemary Varley, Routledge, 2014*

Retail Business Kit for Dummies, *Rick Segel, John Wiley & Sons, 2009*

ELECTIVE PAPER-4

MEDICAL TEXTILES

SUB. CODE: 15TADE04

UNIT I

Introduction, fibres used, speciality fibres used in medical textiles- alginate, chitin, chitosan collagen, catgut, super absorbent fibers, Types and properties of medical textiles – role of textile structures, types of materials, properties of medical textiles products, implantable materials , non implantable materials, extra corporeal devices and healthcare and hygiene products. Testing and characterization of medical textile products. Applications of non wovens in medical field, future of medical textiles and products.

UNIT II

Healthcare and hygiene textiles: Surgical gowns, drapes, cap, facemask, sterilization wrap, apparels for healthcare workers and patients in hospital environment, hospital laundries and their role in medical textiles, hygiene products, feminine hygiene, adult incontinence products and baby care products, super absorbents, cleaning products, wipes, etc, Testing and characterization of Healthcare and hygiene textiles

UNIT III

Non-implantable textiles: Wound causes and types, wound care products – alginate dressings, film dressings, foam dressings, hydrocolloid dressings, matrix dressings, silver dressings,

Bandages – purpose and role of bandages, types – gauze bandage, triangular bandages, adhesive bandage, tubular bandage, compression, light support bandages, orthopedics bandages etc. Gauze, swabs and other absorbent products, Testing and characterization of Non-implantable textiles

UNIT IV

Implantable textiles and extra corporeal devices: Purpose and role of Vascular grafts, Aortic heart valve sewing rings, Aortic heart valve fabric, Artificial ligaments, Artificial tendons, Pelvic floor repair mesh, Incontinence slings, Hernia mesh, Surgical mesh, Umbilical tapes, Abdominal wall patches. Artificial kidney, artificial liver, artificial lung. Testing and characterization of Implantable textiles and extra corporeal devices

UNIT V

Drug releasing textiles - classification, fabrication and applications of drug releasing textiles, Bio-functional textiles - types , manufacturing process and applications of biofunctional textiles Textiles with cosmetic effects - applications of cosmetotextiles , Reusable medical textiles – role types, advantages and future trends ,nanofibrous textiles in medical applications.

References

1. Handbook of medical textiles, *V.T.Bartels, Wood head publishing LTD, 2011*
2. Medical Textiles and Biomaterials for Healthcare: Incorporating Proceedings of MEDTEX03 International Conference and Exhibition on Healthcare and Medical Textiles
Subhash Anand, J. F. Kennedy, M. Miraftab ,Wood head publishing in textiles,2006
3. An Introduction to Healthcare and Medical Textiles, *Wen Zhong, DES tech publications, Inc, 2013.*
4. Applications of nonwovens in technical textiles, *R.A.Chapman, Textile Institute*
5. Biomaterials, *Sujata V Bhat, Narosa Publishing House, New Delhi, 2002.*
6. A Text Book of Fiber Science and Technology, *S P Mishra, New Age, International (P) Ltd. Pub, 2000.*
7. Biomedical polymers and polymer therapeutics, *Emo Chiellini et al, Kluwer academic Publishers, 2002*
8. Advanced textiles for wound care, *S.Rajendran, woodhead publishing, 2009*

ELECTIVE PAPER-5
ACCESSORY DESIGNING
SUB. CODE: 15TAD05

Exercises:

Designing of ornaments and accessories on the basis of the following themes

1. Traditional style, 2. Ethnic style, 3. Contemporary style, 4. Fusion

Ornaments

1. Chains/Necklaces
2. Ear rings
3. Nose rings
4. Bangles/ Bracelets
5. Armlets
6. Finger rings
7. Hip chains
8. Anklets
9. Toe rings

Accessories

1. Hand bags
2. Purses/ Wallets
3. Cell Phone pouches
4. Belts
5. Hair bands
6. Slippers/ Booties

Develop a set of jewellery using an eco friendly material.

References:

1. Beaded Ornaments for the Holidays and Beyond, *Bead & Button Magazine*, Kalmbach Publishing, 2009
2. Basic Jewelry Making: All the Skills and Tools You Need to Get Started, Sandy Allison, Ted Walker, Alan Wycheck, Stackpole Books, 2005
3. The Encyclopedia of Jewelry-making Techniques, Jinks McGrath, Running Press, 1995
4. Making Handbags & Purses: 50 Patterns & Designs from Casual to Corporate, Carol Parks, Lark Books, 2000
5. Handbags: What Every Woman Should Know, Stephanie Pedersen, David & Charles, 2006

ELECTIVE PAPER-6
CLOTHING BOUTIQUE MANAGEMENT
SUB. CODE: 15TADE06

UNIT-I

How to start a boutique: Creating a business plan, finding ideal location, financial planning

UNIT-II

Government norms to run a boutique, Interior designing, sourcing of raw materials and Inventory planning

UNIT-III

Buyer supplier relationships, consumer relationship, Tips and Tricks to attract the customer

UNIT-IV

Essential Technology support to run a boutique and Labor management, Warehouse

UNIT-V

Quality control, Research and development and analysis, Marketing and Promotion and maintenance of boutique

References

1. Opening a Boutique Clothing Store: How to Start your Own Unique Boutique, *Briana Stewart*
Bull City Publishing, 2014
2. FabJob Guide to Become a Boutique Owner, *Tag Goulet, Debbra Mikaelsen, Catherine*
Goulet, FabJob Incorporated, 2011
3. Fashion Unraveled: How to Start, Run and Manage an Independent Fashion Label, *Jennifer*
Lynne Matthews, 2009

SUPPORTIVE PAPER –1
EMBROIDERY PRACTICALS
SUB. CODE: 15TADS01

Exercises

I. Hand Embroidery

- a. Flat Stitches - Running Stitch, Back Stitch, double back stitch, Stem Stitch, Satin Stitch, Couching Stitch, Cross Stitch, Herringbone Stitch
- b. Loop Stitches - Chain Stitch, Lazy-daisy Stitch, Button hole Stitch, Blanket Stitch
Fishbone Stitch, Feather Stitch – single feather and double feather, fly Stitch, Cretan stitch, Roumanian stitch,
- c. Knotted Stitches - French knot Stitch, Double knot Stitch, Bullion knot Stitch

II. Traditional Embroidery

Embroidery of Punjab, Kantha of Bengal, embroidery of Kashmir, chickankariwork of Lucknow, Embroidery of Gujarat, Kasuti of Karnataka

III. Prepare article using hand embroidery – Items may be the following or of your choice – cushion cover, panel for sarees, blouse necklines, bags, sari borders, duppattas etc.

IV. Prepare an article using traditional embroidery - Items may be the following or of your choice – cushion cover, panel for sarees, blouse necklines, bags, saree borders, duppattas etc.

References

1. Embroidery stitches by *Mary Webb*- Over 400 Contemporary and Traditional stitch patterns, *Quantum publishing Ltd, London. 2006*
2. Little Stitches – 100 + Sweet Embroidery designs, *Aneela Hoey, C & T Publishing Inc, 2012.*
3. Ethnic Embroidery of India, *Usha Srikanth, Samanta Enterprises, University of Michigan, 1998*

SUPPORTIVE PAPER –2
BASIC FASHION SEWING PRACTICAL
SUB. CODE: 15TADS02

Exercises:

- 1. Sewing machine:** Essential Equipments and supplies, Parts of sewing machine, Marking tools, cutting tools, measuring tools, Pressing tools, Threading machine, cleaning and maintenance of sewing machine
- 2. Seams**
- 3. Hems**
- 4. Facings**
- 5. Controlling Fullness**
- 6. Zippers**
- 7. Buttonholes, Buttons and other closures**
- 8. Sleeves**
- 9. Sleeve Placket and cuff**
- 10. Collars**
- 11. Waistline finishes**
- 12. Pockets**
- 13. Underlining's, Linings and interlinings**

References

1. The Complete Book of Sewing Shortcuts, *Claire B. Shaeffer, Sterling Publishing Company, Inc., 1981*
2. Complete Photo Guide to Sewing, *Creative Publishing International, 2005*
3. The Everything Sewing Book: From Threading the Needle to Basting the Hem, All You Need to Alter and Create Beautiful Clothes, Gifts, and Decorations ,*Sandra Detrixhe, Everything Books, 2004*

SUPPORTIVE PAPER –3

SALWAR KAMEEZ DESIGNING

SUB. CODE: 15TADS03

EXERCISES

Machine pedaling and threading

Straight stitch

Curve stitch

Body measurements

Pattern making – salwar and kameez

Neckline finishing-facing and binding

Armhole finishing – facing and binding

Construction – salwar and kameez

References

1. Zarapkar System of cutting, *KR.Zarapkar, Navaneet publications, 2012*

SUPPORTIVE PAPER –4

PERSONAL GROOMING

SUB. CODE: 15TADS04

UNIT-I

What is Grooming, Importance of personal grooming, Personal grooming habits

UNIT-II

Personal grooming and formal dressing for Men: Hair, Face, Hands, Personal hygiene, formal dress code, shirts and trousers, Business suits, Ties, Shoes, Handkerchief, Wallet, Jewellery eye glasses, fragrance, business casuals

UNIT-III

Personal grooming and formal dressing for Woman: Hair, Personal hygiene, Make up, Hands and Nails, Feet, shoes, jewellery, formal dress code, Indian dressing, western dressing, accessories, business casuals

UNIT-IV

Figure types and Right clothes for the figure, Interview dress tips for both Men and woman

UNIT-V

Skin care and Hair care: Daily skin care and weekly care, Manicure, Pedicure, Facials, Hair care-Daily hair care and Application of henna and dye

References

1. Corporate Grooming and Etiquette, *Sarvesh Gulati, Rupa Publications, 2012*
 2. Business Etiquette in Brief, *Ann Marie Sabath, Adams media, 1993*
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