BHARATHIAR UNIVERSITY: COIMBATORE 641046 SCHOOL OF DISTANCE EDUCATION

M. Sc. COSTUME DESIGN AND FASHION

(For the student admitted from the academic year 2010-11)

ELIGIBILITY FOR ADMISSION: B.Sc. CDF/Textiles & Clothing/Fashion Designing/Textile

& Fashion/Apparel Technology

ELIGIBILITY FOR FACULTY : a) M.Sc., M. Phil. in CDF/Textiles & Clothing/Fashion

b) M. Tech. in Textile Technology

SCHEME OF EXAMINATION

	University Exam	
Subject Title	Duration in Hours	Maximum Marks
I YEAR		
Paper I - Costumes and Textiles of the World	3	100
Paper II - Indian Textile Industry	3	100
Paper III - Research Methodology and Statistics	3	100
Paper IV - Fashion Merchandising	3	100
Paper V - International Trade and Documentation	3	100
Practical I - Ornaments and Accessories	3	100
Practical II - Draping for Fashion Design	3	100
II YEAR		
Paper VI - CAD in fashion Designing	3	100
Paper VII - Technical Textiles	3	100
Paper VIII - Apparel Quality Standard and Implementation	3	100
Paper IX - Textile Testing	3	100
Practical III - Textile Testing	3	100
Practical IV - Designs with Prints	3	100
Practical V - Advanced Garment Construction	3	100
Project	3	100
Total		1500

^{*}Project guidelines: Project must be done under an eligible guide. Each candidate must present his/her work carried out in two review meetings. No. of pages – 80 to 100; Minimum no. of book reference: 30 & Journals: 30.

PAPER -I COSTUMES AND TEXTILES OF THE WORLD

UNIT I

North America -Inuits and Aleuts, American Indians of the southwest, American Indians of plains and northwest, and Amish costumes.

Central America - Men and women costumes of Guatemala, Mexico, Andean countries-Colombia, Ecuador, Peru and Bolivia, Chile, Argentina. North east-Brazil, Venezuela, Paraguay and Uruguay.

UNIT II

European countries - Egypt, Greece, Roman,

Norway, Sweden, Denmark, Scotland, Austria, Germany, Switzerland, Hungary, Poland, Ukraine, Belarus and Netherlands

UNIT III

Far Eastern Countries - Mangolia, China, Taiwan, Hong Kong, Japan, North and South Korea, SriLanka, Pakistan, Burma, Thailand, Philippines, Malaysia and Singapore.

UNIT IV

Africa- Costumes of North, East, West and South.

UNIT V

Middle East Countries: Turkey and Iran, Pakistan, costumes of Arab Peninsula.

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

PAPER-II INDIAN TEXTILE INDUSTRY

UNIT I

Origin, Growth and Development of Indian Textile Industry - Cotton, Wool, Silk, Rayon, Man-Made Textiles, Ready made garments

UNIT II

Five year plans for the textile Industry - Recent plan and previous 5 Five year plans Organisations related to the Textile and clothing Industry Concept of GATT, MFA, WTO, AlC, Globalization

UNIT III

Technological developments in Fibre Industry, Significance and uses. Technological developments in Yam Industry, significance and uses.

UNIT-IV

Technological developments in Fabric Industry -woven, significance and uses Technological developments in Fabric Industry - knitting, significance and uses Technological developments in Garment Industry, significance and uses

UNTT V

Technological developments in Printing and Dyeing Industry, significance and uses Technological developments in Processing Industry, significance and uses

- 1. Textiles Fiber to fabric, Bernard P Corbman, 6th edition, Mc Graw Hill Book Co, Singapore
- 2. Fabric forming systems, Peter Schwartz, Trevor Rhodes, Mansour Mohammed, Noyes' Publications, New Jersey, USA(1996)
- 3. Fabric Care, Normia D'Souza, New Age International Pvt Ltd, New Delhi Journals:
- 4. Indian Textile Journal- Business Press P. Ltd, Maker Tower B-18 floor, Cuffparade, Mumbai 400 009
- 5. Indian Cotton Mills Federation ICM Textile Centre 34 P-d, Mello Road, Mumbai 9
- 6. Indian Silk, Central Silk Board, Ministry of Textiles, M G Road, Bangalore 560 001.
- 7. Man-made Textiles in India SASMIRA, Sasmira marg, Worli, Mumbai
- 8. Textile Magazine, Magazine House, 710 Mount Road, Chennai
- 9. Textile trends, East land Publications Pvt Ltd, 44 Chittranjan Avenue, Calcutta-12.
- 10. HandIoom Export Promotion Council 622 Mount Road Chennai
- 11. Garments India, Garment India Press, 53 South West Road, Chennai-17
- 12. Indian Jute Bulletin-Indian Regional office, 4K S Pay road, Calcutta -1.
- 13. Hosiery and Textile Journal-International Magazine Home-164 Modi Street, Fort, Mumbai-l
- 14. Textile Highlights, 396, Veerasavarkar marg, Poabhadevi, Mumbai-25
- 15. Clothing News Bulletin, Clothing Manufacturers Association of India House, Mumbai-26
- 16. The Textile Institute and Industry, 10 Back Brance. Street, Manchester

PAPER -III RESEARCH METHODOLOGV AND STATISTICS

UNIT-I

Meaning of Research - Types of Research - Significance of Research - Research Process. Defining, the Research Problem - Sources, Identification, Selection and Statement, Review of related literature

UNIT-II

Research Design - Meaning, Different research designs, 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 designs.

UNIT - III

Methods of Data collection - observation, Questionnaire, Interview

Data processing and analysis, - Collection, classification, tabulation, Graphical, representation. and data analysis. .

UNIT-IV

Meaning and scope of statistics Role of statistics in research, measures of central tendency and dispersion, Co-relation,

Co-efficient of Co-relation and its Interpretation, rank Co-relation, regression equation and predictions.. .

UNIT-V

Elements of testing of a statistical hypothesis, formulation of the problem. Definition of type -I and type-II errors, Levels of significance large sample test for proportions. Difference in proportions for means and difference in means.

Application of students test for small samples for single mean, difference in means- test for equality of variance. Non - parametric test, Application of Chi-square test, ANOVA test.

- 1. Introduction to Research in Education, Ary, Hort Reinhart (1982)
- 2. Research in Education, Best J N, Prentice Hall, Delhi (1979)
- 3. An Introduction to Statistical Methods, S P Gupta, Vikas Publishing House, New Delhi.
- 4. Research Methodology, C R Kothari, Published by K K Gupta for New Age International (P) Ltd, New Delhi
- 5. Statistics, Voll &2, G A Zeaf Textile Institute Manchestor

PAPER -IV FASHION MERCHANDISING

UNIT I

Introduction to Merchandising, Understanding fashion Merchandising, Scope of Merchandising, Fashion merchandising terminology, Role of Merchandiser

UNIT II

Types of Merchandising - Export House - manufacturer - Buying house, Buying Agency - Selection of Buyer's & Buying Agency

UNIT III

Pre-buying Activity, Fabric types, properties and Behavior, selection of Fabric, Garment construction, Quality requirements; quality problems, Merchandiser's role after production, Delivery date extension, transport delays - Natural calamities, Importance of LC amendments

UNIT IV

Knowledge of Fashion Trends, Brands and Designers, Introduction to international designers, Business opportunities and avenues, Interdepartmental relationship for merchandiser, Boutique handling

UNIT V

Marketing analysis - Advertising and Media Planning, Fashion shows and other events, Industry tour and Project. Role play, Surveys and organizing of exhibitions

- 1. Fashion Design and Product Development, Harold Carr and John Pomeroy, Black well Science Inc, Cambridge (1992)
- 2. Fashion marketing, Mike Basey, Oxford University press, Wynford Drve, Don Mills,Ontario (1995) .
- 3. Introduction to Fashion, Patrick John, B T Batsford Ltd, Ireland, Fullham road, London (1992).
- 4. Fashion From Concepts to Consumer, Stephens Frings, Prentice Hall, 7th Edition 2002.
- 5. Marketing Management, Philip Kotler, Prentice Hall, 7th Edition 1996

PAPER V INTERNATIONAL TRADE AND DOCUMENTATION

UNIT I

Introduction to international trade, Giobal scene, Prospects for Indian Apparel in overseas market, Globalisation, GATT and WTO

UNIT II

Foreign trade document -need - types of documents related to goods, invoice to goods, invoice packing note and list - certificate relating to shipments - shipping bill- caret ticket - certificate of measurement - Bill of lading - airway bill - documents related to payment -letter of credit - bill of exchange - bank certificate for payment - document related to inspection

UNIT III

Import procedure and shipment - import license - procedure - special schemes replenishment license - advance license - split up license - spares for after sales service license - code number - bill entry, pre shipment inspection and quality control, post shipment formalities and procedures

Export procedure and recent policies of the government

UNIT V

Customs - meaning, definition, types, exercise and customs, clearance of export cargo shipment of goods and port procedures - claiming duty draw backs and other benefits

REFERENCE:

Govt. of India: Hand book of import and export procedures

Bose. A, Streamline your export paper work, International trade form Oct - Dec 1965

PRACTICAL –I ORNAMENTS AND ACCESSORIES

Prepare the following Samples using the available raw materials / any base material (Example - on top of a bangle or slipper)

- 1. Hand bags -4 varieties
- 2. Purses / Wallets / Cell Phone covers -. 4 varieties
- 3. Chains I Necklaces 5'models
- 4. Bangles / Bracelets / Watches 5 models
- 5. Slippers / Shoes 5 models
- 6. Ear rings 5 models
- 7. Finger rings / toe rings- 5 models
- 8. Belts 5 models
- 9. Hair bands 5 models
- 10. Anklets 5 models
- 11. A set. of Bridal Ornaments select a Bridal costume.
- 12. A set of Ornaments for a Dress designed for a Fashion Show

PRACTICAL -II DRAPING FOR FASHION DESIGN

Prepare the following samples using the Draping Method

- Basic waist Front and Back
- Dart Manipulation
- Pleats, Darts, Tucks and Gathers
- Neckline variations
- Armhole variations
- WaiStline variations
- The princess waist
- Midriff waist
- Yokes

Skirts- any- two

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

Collars - any two

- Mandarin Collar
- Band Collar
- Convertible collar
- Peter pan collar
- Shawl collar cut in one piece with front waist

Sleeves - any two

- Basic sleeve
- Dolman sleeve
- Raglon sleeve
- Kimono sleeve

Create anyone of the following garment for a girl child

- Yoke frock
- Baba suit with bib
- Middi and middi top

Create anyone of the following garment for a boy child

- T-shirt and shorts
- Kurta and Pyjama
- ¾ pants and Tops

Create anyone of the following for an Adolescent girl

- Full Gown
- Salwar Kameez Churidhar
- Lachaas Flowing skirt and short tops
- Middi and Tops
- Wrap around and Tops

Create any one of the following for an adolescent boy

- Night gown with shawl collar
- T-shirt and Bermudas
- Shirt and Pant

- 1. Dress Design Draping and Flat Pattern, Hill HouSe M S, Houghton Miffin Co, London, USA
- 2. The Theory of Fashion Design, Brockman, Magritha, John Wiley Sons, New York.
- 3. Design through Draping, Sheldon, Marhta, Burgers Publishing company, Minneapolis, USA.
- 4. Modem Pattern Design, Popin, Hariet, Funk and Wagnalls, New York and London

PAPER VI CAD IN FASHION DESIGNING

UNIT I

Computer Basics- computer specifications- input / output devices - concept of CIM Computer Aided Fashion- Computer Aided Garment Manufacture

CorelDraw

Development of designs for surface decorations

UNIT II

Computer Pattern making, grading, and marker planning, Draping on Mannequins to check the fitting and texture mapping

Study of LECTRA, GERBER and other software's Enterprise resource planning, supply chain management.

UNIT III

Computer application in sewing and embroidery- Computer aided colour matching - computer controlled overhead transport and ware house storage systems .

UNIT IV

The impact of colour graphics of clothing design - CAD in fabric design - CAD in clothing design- Computer colour graphics- creating visual images.

UNIT V

Computer Applications in Fabric Design, Creating weave designs, creating jacquard designs

- 1. Softwares; Adobe PhotoShop, CorelDraw, TukaCAD, Tuka Studio
- 2. Computer Aided Design and Manufacturing, Groover M P, Zimmers E W, Prentice hall International.
- 3. CAD in Clothing and Textiles, Winfred Aldrich, II

PAPER VII TECHNICAL TEXTILES

UNIT I

Introduction, definition and scope of technical textiles, Application of technical textiles

UNIT II

Finishing of Tchnical textiles - Introduction, finishing process, Mechanical finish

UNIT III

Heat and flame protection, water proof fabrics, Geo-textiles

UNIT IV

Medical textiles, Textiles-for survival

UNIT V

Smart textiles and intelligent textiles

REFERENCES:

Hand book of Technical textiles - A R Morrocks and S C Anand, Wood head publishing ltd, England 2000

PAPER-VIII APPAREL QUALITY STANDARDS AND IMPLEMENTATION

UNIT I

Introduction to quality standards, importance, benefits, levels and sources of quality, standards, British standards & ISO Standards for the Apparel Industry, ISO 9000 & 14000 standards, Total quality Management systems, Co Labeling &OKO Tex 100 standards.

UNIT II

Sensitizing dye stuffs, allergic dyes, carcinogenic amines, red-listed as per Eco specifications, Eco management of textile and apparel industry, Global Scenario, Eco mark &Environment friendly textiles.

Garment defects.- cutting defects, sewing defects, assembly defects, pressing, finishing and packaging defects ..

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,. Pentachlorol 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, testing and sewing quality tools

UNIT V

Quality costs and customer returns; inspection procedures, AQL and quality control

REFERENCES:

- 1. Managing quality in apparel industry, Pradeep V Mehta, NIFT Publications
- 2. An Introduction to quality control for the apparel industry, Mehta P V, Marcel Dekker
- 3. Physical testing and quality control, Vo123, No. 1/2/3 textile Institute (1993)
- 4. Textile Testing, John Skinkle, Brooklyn Publication, New York.
- 5. Textile Testing, P. Angappan & Gopala Krishnan, JK. Publications

PAPER IX TEXTILE TESTING

UNIT I

Introduction to testing - terminology of testing - selection of samples for testing standard R H and temperature for testing - measurement of moisture regain conditioning oven - Shirley moisture meter

UNIT II

Fiber testing

- 1. Cotton fiber length Baer Sorter
- 2. Fineness Air flow principle instruments, Sheffield micronaire
- 3. Maturity Caustic Soda swelling
- 4. Strength Pressley bundle strength tester, Stelometer
- 5. Determination of trash and lint in cotton Shirley trash analyzer

Unit III

Yam Testing

- 1. Yam numbering system conversion of count from one system to another
- 2. Instruments for count determination quadrant balance, Beesley balance
- 3. Yam strength testing Priciples of CRT, CRL, CRE Single strength tester, Lea strength tester .
- 4. Yam twist Direction of twist, twist multipliers, Twist testers tension type, A TIRA direct type tester
- 5. Yam eveness classification of variation, methods of measuring evenness black board, ASTM Standards, Uster evenness tester, Uster Standards, Yam faults, classifications, Classimat
- 6. Yam hairiness and crimp testing

UNIT IV

Fabric testing

- 1. Fabric Particulars –length, width, crimp, weight, cover factor
- 2. Fabric Strength fabric tensile strength tester, tearing strength tester, hydraulic bursting strength tester
- 3. Fabric Abrasion resistance, handle, serviceability, assessment, Martindale abrasion tester
- 4. Fabric Pilling I C I Pill box tester
- 5. Fabric drape -Measurement, Drape meter
- 6. Fabric Stiffness Shirley stiffness tester
- 7. Fabric crease resistance and crease recovery measurements
- 8. Fabric permeability Shirley air permeability tester, fabric water permeability tester, Bundersmann tester

UNIT V

Colour Fastness in Textiles - Crocking test, perspiration test, sunlight, laundering, pressing and dry cleaning aspects, whiteness index, matching cabinets, computer matching

REFERENCE:

Principles of textile Testing, Booth J E, Hoybooks, London (1970)

Technology of textile properties, Marjorie A Taylor, Forbes publications Ltd, London (1972)

Textile Testing, Angappan P and Gopalakrishnan R, SSM Institute of textile teclmology, Komara Palayam

Fiber Science, Mishra S P and Kesavan B K, SSM Institute of textile technology, Komara Palayam

Objective evaluation of fabrics, Stylos G, John Wiley & Sons USA

PRACTICAL III TEXTILE TESTING

1.	Determination of Tensile Strength of the given Fabric
2.	Determination of Stiffness of the given Fabric
3.	Determination of Abrasion Resistance of the given Fabric
4.	Determination of Crease Recovery of the given Fabric
5.	Determination of Drape of the given Fabric
6.	Determination of Tensile Strength of the given Fabric
7.	Determination of Bursting Strength of the given Fabric
8.	Determination of Colour Fastness of the given Fabric by Crock meter
9.	Determination of Color Fastness of the given Fabric by Perspirometer
10.	Determination of Color Fastness of the given Fabric by Laundromete
11.	Determination of Shrinkage of the given Fabric

PRACTICAL IV DESIGN WITH PRINTS

Design and construct a garment with Tie and Dye Print

Design and construct a garment with Batik Print

Design and construct a garment with Stencil Print

Design and construct a garment with Block Print

Design and construct a garment with Screen Print

Design and construct a garment with Fabric Painting

Pattern Making - Draping or Drafting

For Examination - Prepare the Printed sample and present the garment silhouette in the form of Illustration .

PRACTICAL V ADVANCED GARMENT CONSTRUCTION

- 1. Design and construct Children's garment of recent fashion- any 2 styles
- 2. Design and construct Women's garment of recent fashion- any 2 styles
- 3. Design and construct Men's garment of recent fashion- any 2 styles
- 4. Design and construct garment for a Party wear
- 5. Design and construct garment for a Fashion Show based on a theme

Method of Pattern Making - Draping or Drafting method Develop Portfolio for all the garments