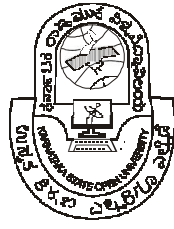


MNPE-09425068494



Karnataka State Open University

Mysore, Karnataka – 570006

In Association with BSAITM

**Syllabus
For
Bachelor of Sciences
Fashion Technology**

Bachelor of Sciences Fashion Technology

Year I		
Code	Subject	Credits
BFT 011	Fashion Illustration and Basic Designing	4
BFT 012	Textile Studies	4
BFT 013	History of Fashion	4
BFT 014	Pattern Drafting, Grading & Construction Techniques	4
BFT 015	Computer Application	4
BFT 016	Communication skills	4
BFT 017	Practical	8
Total		32

Year II		
Code	Subject	Credits
BFT 021	Fashion Illustration	4
BFT 022	Textile Studies	4
BFT 023	History of Fashion	4
BFT 024	Advanced Drafting, Draping and Construction Techniques	4
BFT 025	Computer Application	4
BFT 026	Fashion Merchanding, Fashion Industry, Marketing & Management	4
BFT 027	Practical	8
Total		32

Year III		
Code	Subject	Credits
BFT 031	Fashion Illustration	4
BFT 032	Volume Production & Quality Control	4
BFT 033	Leather Technology	4
BFT 034	Knitting Technology	4
BFT 035	Computer aided Fashion Designing	4
BFT 036	Entrepreneurship	4
BFT 037	Project	8
Total		32

Detailed Syllabus

Year I

BFT 011 Fashion Illustration and Basic Designing

Section -1 Rendering Techniques

Unit -1 Pencil, Steadler and Color Pencil.

Unit -2 Charcoal, Water Color, Poster Color.

Unit -3 Oil and Acrylic.

Unit -4 Fabric Rendering - (30samples of different Varieties of fabric)

Section -2 Photo Analysis

Unit -5 Photo Analysis Different garments of Kids, Male and Female.

Unit -6 Introduction to Fashion Illustration Observational drawing from life.

Unit -7 Attention to fashion pose, fashion stills.

Unit -8 Fashion model drawing, front and back lay figure.

Section -3 Methods and Techniques

Unit -9 The fashion figure - movement /poses.

Unit -10 Lline, value and proportion - representing form by various methods and technique.

Unit -11 Line and texture.

Unit -12 Exploring various techniques.

Section -4 Accessories and Shading

Unit -13 Drawing various accessories and shading.

Unit -14 Fashion figure drawing-eyes.

Unit -15 Fashion figure drawing -hands, feets, lips, nose.

Unit -16 Fashion figure drawing- face, hair.

Reference Books:-

1. Dress Pattern Designing (Classic Edition): The Basic Principles of Cut and Fit - Hardcover (Mar. 7, 2003) by Natalie Bray and Ann Hagggar
2. Rip It!: How to Deconstruct and Reconstruct the Clothes of Your Dreams - Paperback (Feb. 7, 2006) by Elissa Meyrich
3. Designing with Dusan: Magic-fit Master Pattern for all adult sizes, instructions for basic sheath pattern - Plastic Comb (1984) by Dusan Mrak

BFT-012 Textile Studies

Section -1 Introduction

Unit -1 Classification of textile fibres according to their nature and origin.

Unit-2 Essential and desirable properties of textile fibres, staple fibre and continuous filaments.

Unit -3 Comparison of natural and manmade fibres.

Section -2	Natural fibres
Unit -4	Vegetable (bast, leaf and seed fibres), animals (wool and silk) and mineral (glass, asbestos and metallic fibres).
Unit -5	Cotton: concept of varieties; definition of grading, distinctive properties and end uses, jute:- varieties.
Unit -6	Distinctive properties and end uses, flax and pineapple fibres:- brief introduction and uses, protein fibres:- wool:- classification, distinctive properties and end users.
Unit -7	Silk:- classification, distinctive properties and end uses.
Section -3	Man-made fibres
Unit -8	Classification, regenerated fibres-acetate, viscose & diverse forms of viscose, cuprammonium.
Unit -9	Alginates - general properties, end uses, synthetic fibres:- principles of polycondensation with reference to polyesters, polyamides and polyurethanes.
Unit -10	principles of poly addition with reference to acrylics, polyolefins, polyvinyl chlorides and co-polymers, chemical properties & end uses of polyester, polyamide and polyacrylonitrile fibre
Section -4	introduction to the production of manmade fibres
Unit -11	principles of melt spinning, details of melt spinning process with special reference to polyester-parameters near spinneret, LOY, MOY & POY, dry spinning and wet spinning; i).
Unit -12	viscosity of melts and solutions, equipments of manmade fibre production.
Unit -13	Main features of the production of some important manmade fibres-viz., viscose, cellulose-acetate, polyamides, polyesters, polypropylene and poly acrylic fibres
Section -5	Texturing
Unit -14	Introduction, purpose, bulked and textured yarns, methods of texturing thermoplastic and non-thermoplastic yarns, basic principles.
Unit -15	feed material characteristics-study of twist-set-detwist, false twist, edge crimp, stuffer box crimp; knit de-knit techniques of texturing.
Unit -16	Techniques of modified stretch yarn; properties and uses of textured and bulked yarns.

Reference Books:-

1. Manmade Fibres by R.W. Moncrieff
2. Textile Chemistry, Vol. I, by R.H. Peters
3. Dyeing and Chemical Technology of Textile Fibres by E.R. Trotman
4. Man-made Fibres Science and Technology, Vol. 1,2,3, by H.F. Mark, S.M. Atlas and E. Cernia
5. Polyester Fibres Chemistry and Technology by H. Ludwig, Textbook of Polymer Science by F.W. Billmeyer

BFT 013 History of Fashion

Section -1 Introduction

Unit -1 Beginning of costumes, origin of costumes.

Unit -2 Development of costumes, seam costume and seamless costume.

Unit -3 Body decorations, tattoos different state wise embroideries in India

Unit -4 Traditional accessories and ornaments in India, dress and civilization at ancient period in India. costumes in different states.

Section -2 Ancient Wear

Unit -5 Indian ancient costumes, costumes of different peoples males

Unit -6 Females, ornaments, accessories, head wears of following rulers period - gupta period,

Unit -7 Kushan period.

Unit -8 Satavahana period

Unit -9 Mmaurya

Unit -10 Sunga period.

Section -3 World costumes

Unit -11 Egypt, Greece, rome, English costumes, byzian costumes.

Unit -12 Far eastern costumes and costumes at under developed nations

Section -4 Century wise costumes

Unit -13 17th,18th,19th to present stage the role costumes at world war.

Unit -14 Peace, religion, civilization, culture etc.

Section -5 Expression

Unit -15 World art-cubism, futurism, dada, pop art.

Unit -16 German expression, romatism and futurism.

Reference Books:-

1. The Complete History of Costume & Fashion: From Ancient Egypt to the Present Day by Bronwyn Cosgrave (Hardcover - Mar 2001)
2. What People Wore When: A Complete Illustrated History of Costume from Ancient Times to the Nineteenth Century for Every Level of Society by Melissa Leventon (Paperback - Jul 8, 2008)
3. Fashion (Oxford History of Art) by Christopher Breward (Paperback - Jun 26, 2003)
4. Costume and Fashion: A Concise History (World of Art) by James Laver, Amy de la Haye, and Andrew Tucker (Paperback - Jul 29, 2002)

BFT-014 Pattern Drafting, Grading & Construction Techniques

Section -1 Introduction to body measurements and size charts

Unit -1 Children's women's and mens standard measurements and commercial measurements.

Unit -2 Length and girth measurements for ladies and gents importance of measurements in ready made and design wear garments.

Unit -3 Variations of body measurements in country wise difference in normal and abnormal measurements in human proportions .

Unit -4	Models measurements in the fashion industry.
Section -2	Pattern making
Unit -5	Methods of pattern making – (drafting and draping), merits and demerits.
Unit -6	Types of pattern types of paper pattern, pattern details, Steps in drafting basic bodice front, back and sleeve.
Unit -7	Draping – preparation of body form, steps in draping a basic bodice front, bodice back and sleeve.
Unit -8	Introduction to slash and spread method and dart monopolization method.
Section -3	Dart manipulation for basic bodice block
Unit -9	zeck dart, shoulder dart armhole dart bust dart, center front dart, princess line etc.
Unit 10	Introduction to basics of trouser manipulations - Including varying trouser lengths, lowering of waist.
Unit -11	Manipulation of darts (to yoke), drafting of waistband and facing methods.
Unit -12	Sshifting darts into seams, converting darts to seams and partial yokes and incorporating darts into seams forming yokes.
Section -4	Pattern grading and Pattern layout
Unit -13	introduction to grading. Types of grading-manual and computerized grading. Master grading - bodic front, bodice back, sleeve and skirts. pattern grading for various sizes and garments. Pattern grading for commercial patterns and industrial patterns.,
Unit -14	Definition, purpose, rules in layout, types of layout (methods).Layouts for lengthwise striped designs, fabric with bold designs, asymmetric designs, one way designs. What can be done if cloth is insufficient, fabric cutting, transferring pattern markings, stay stitching and ease stitching.
Section -5	Pattern drafting for basic skirt Block and Variation of Skirt
Unit -15	Four major skirt silhouettes – Straight skirt, A-line , Tight skirt, Circular skirt, Gore skirt.
Unit -16	Godet skirt, Yoke skirt, pleated skirt, Tier skirt etc, Basic bodice construction, Darts manipulation – Slash-spread technique

Reference books:-

1. Pattern Drafting & Grading: Women's and Misses' Garment Design - Spiral-bound (1968) by M. Rohr
2. Pattern drafting & grading: Women's and misses' garment design, including junior's, sub-teens, teens, and half sizes, - Unknown Binding (1968) by Mayer Rohr
3. Modern method of women's & children's garment design: Measurement charts, pattern drafting, grading - Unknown Binding (1992) by A Gebbia

BFT-015 Computer Application

Section -1	computer terminology
Unit -1	Identify computer monitor, keyboard, printer, Explain RAM, ROM, and CD ROM.
Unit -2	Identify hard disk and floppy disk, Laser Printer ,Discuss micro processors.
Unit -3	Explain DOS and OS2/Windows operating systems.
Unit -4	Identify differences in hardware needs for software applications

Section -2	Type Documents
Unit -5	Learn to access MS Word, Learn to center titles, Type and spell check documents.
Unit -6	Save documents, Retrieve documents, Revise documents.
Unit -7	Use MS Word to alphabetize lists, Use MS Word to type in large and small print , Print documents
Section -3	Formatting in Ms word
Unit -8	Creating a new word document, Opening an existing document, Editing and Saving a document, Typing a text, deleting, inserting, finding, replacing, copying and moving text.
Unit -9	Justifying texts, Bold, Italics, Underline, Strike, Double Strike and Colouring text, Selecting Font and Font Sizes, Formatting page, margins, page size, portrait and landscape, Inserting symbols, pictures, Using Bullets.
Unit -10	Using and manipulating tables, inserting / deleting of rows and columns, Sorting tables, Using Header and footer, Inserting Page number.
Unit -11	Changing character width and line spacing, Printing of a document, Using print preview, Copy .
Unit -12	Moving text between two different documents, Typing More than one language in the same text, Shortcuts for various activities in MS Word.
Section -4	Table, Mail Merge and Macro
Unit -13	Table of contents, Using templates and forms, Mail Merge.
Unit -14	Advanced document features, Hyperlinks and Bookmarks.
Unit -15	Using Section Breaks, Tracking changes. Advanced Table options, Using Macros, Protecting and security
Section -5	Templates
Unit -16	What is Template?, Advantages of Template, Extension of Template

Reference Books:-

1. Computer Applications and Keyboarding: Comprehensive, Lessons 1-150 by Jack Hoggatt and Jon A. Shank (Hardcover - Jan 28, 2005)
2. Century 21 Computer Applications & Keyboarding by Jack Hoggatt, Jon A. Shank, and Jerry W. Robinson (Hardcover - Mar 2, 2001)
3. Glencoe Keyboarding with Computer Applications, Student Edition, Lessons 1-150 by Glencoe McGraw-Hill (Hardcover - Jan 3, 2006)
4. Computer Concepts: Illustrated Essentials by Katherine Pinard (Paperback - Aug 17, 2010)

BFT-016 Communication skills

Section -1	Fashion Forecasting
Unit -1	Introduction Forecasting considering Fashion Cycle as a prelude.
Unit -2	Study of Consumer Behavior Fashion Forecasting Process. Forecasting of color.
Unit -3	Forecasting of fabrics, Forecasting of Silhouettes.
Unit -4	Forecasting of Trend. Using various resources for Interpretation of Fashion Forecasting

Section -2	Fashion styling
Unit -5	Communicate your ideas using fear sheets, storyboards, mood and concept boards, testing.
Unit-6	Writing caption and team production. Elements of style– accessing styles and trends.
Unit -7	Elements of style, achieve visual balance, making trends.
Unit -8	Working with color – color combination, color wheel, color characteristics, simultaneous contrasts, lights and color.
Unit -9	Creating Fashion Story – Target market, Fashion Story, building mood and visual presentation.
Section -3	Fashion promotion
Unit -10	Advertising – definition, benefits, ethical issues in advertising, Advertising models. advertising media.
Unit -11	advertising appropriation Production, creative strategy, fashion advertising, fashion promotion. Visual merchandising in fashion communication.
Section -4	Display and exhibition
Unit -12	Introduction to 3D Introduction to space and types of spaces. Introduction to graphics and signage design for display and exhibition.
Unit -13	Develop understanding of equipment and machinery and their limitations. Window display and Window Dressing
Section -5	Component Skills
Unit -14	Skills And Resources Available, Cultural Differences In Learning Styles.
Unit -15	Academic Expectations, Independent Learning, Aiming High For Assignments, Academic Argument, Analytical And Critical Thinking, Good Style, Style For The School Of Commerce, Instructional Words, Plagiarism And Using Your Own Words,
Unit -16	Referencing: The Harvard System, Referencing: The Footnoting System, Referencing: Notes To Students, Group Skills

Reference Books:-

1. Messages: The Communication Skills Book by Matthew McKay (Paperback - Mar 3, 2009)
2. People Skills: How to Assert Yourself, Listen to Others, and Resolve Conflicts by Robert Bolton (Paperback - Jun 1986)
3. The Hard Truth About Soft Skills: Workplace Lessons Smart People Wish They'd Learned Sooner by Peggy Klaus (Paperback - Jan 22, 2008)
4. The Communication Skills Workbook by John J. Liptak, Ester A Leutenberg, Carlene Sippola, and Amy L Brodsky (Spiral-bound - Jan 1, 2008)

Year II

BFT-021	Fashion Illustration
Section -1	Fashion Figure
Unit -1	Composition and stylizing figure.
Unit -2	Garment details, Croquis and flat sketches, male and female.

Section -2	Designing dresses for unusual figures
Unit -3	becoming and unbecoming – for the following figure types(problems and remedies): Stout figure, thin figure.
Unit -4	slender figure, narrow shoulders, broad shoulders, round shoulders.
Unit -5	large bust, flat chest.
Unit -6	large hip, large abdomen.
Unit -7	round face, large face, small face.
Unit -8	prominent chin and jaw, prominent forehead.
Section -3	Rendering Fabric
Unit -9	Prints, wovens, knits, wool, fur, lustrous.
Unit -10	dark, sheer, lace.
Unit -11	embellishment, etc.
Unit -12	Product development through fashion illustration in apparels and accessories
Section -4	Figure
Unit -13	Drawing a full fledged fashion figure with all the parts of the body.
Unit -14	front view, back view.
Unit -15	side view and also different angles.
Section -5	Applications
Unit -16	Application of trimmings and decorations in dresses

Reference Books:-

1. Fashion Illustration by Fashion Designers by Laird Borrelli (Hardcover - Mar 5, 2008)
2. Contemporary Fashion Illustration Techniques by Naoki Watanabe (Paperback - Jun 1, 2009)
3. Big Book of Fashion Illustration: A Sourcebook of Contemporary Illustration (New Illustration Series) by Martin Dawber (Paperback - Feb 5, 2008)
4. Fashion Illustration for Designers (2nd Edition) by Kathryn Hagen (Hardcover - Jan 31, 2010)
5. Digital Fashion Illustration with Photoshop and Illustrator by Kevin Tallon (Paperback - Oct 7, 2008)

BFT-022 Textile Studies

Section -1	Theoretical And Historical Option Studies
Unit -1	Indian Art and Design.
Unit -2	Contemporary Britain: Social and Environmental Issues, Gender, Race.
Unit -3	Class in Film, Psychology of Art and Design.
Unit -4	New Technologies in the Art and Design Professions.
Section -2	Textiles for Interiors
Unit -5	The module is concerned with the application of Printed Textiles within an interior context, through the exploration of image.
Unit -6	pattern, colour, surface and repeat structures; to provide an awareness of interior space implications

Section -3	Design Management with Marketing
Unit -7	This module provides students with knowledge and understanding of a range of design-orientated business and management principles.
Unit -8	developing comprehension of the associated terminology.
Unit -9	Issues surrounding clients copyright, patenting of design and team dynamics are covered through a lecture and tutorial programme.
Unit -10	enable students to apply the knowledge.
Unit -11	and personal understanding of a range of commercial issues to real world business.
Unit -12	management scenarios.
Section -4	Textile Presentation Portfolio
Unit -13	This module offers students the opportunity to assess their career aspirations.
Unit -14	plan a creative strategy to aim their own portfolio towards a selected career area.
Unit -15	Students research, organise and execute design collections.
Unit -16	refine their portfolio to a professional level in preparation for presentation to industry or agencies

Reference Books:-

1. The Spinning World: A Global History of Cotton Textiles, 1200-1850 (Pasold Studies in Textile History) by Giorgio Riello and Prasanna Parthasarathi (Hardcover - Aug 10, 2009)
2. Experimental Textiles: A Journey Through Design, Interpretation and Inspiration by Kim Thittichai (Hardcover - Sep 1, 2009)

BFT-023	History of Fashion
Section -1	Historical Development and Sources of Inspiration
Unit -1	A survey century by century following fashion trends via trade routes and craft migration.
Unit -2	the origin and function of clothing
Unit -3	accessories, belts, bags, gloves, millinery.
Unit -4	make-up, clothing in relation to Art Movements Roccoco.
Unit -5	Art Nouveau, Art Deco, Modernists, Pop and Op Art.
Unit -6	The development of Street Fashion through Leisure wear.
Section -2	Fashion Identification
Unit -6	Season, silhouette, line, colour, fabric, fibre, style, atmosphere.definition of the term 'classic'. Fashion world terminology.
Unit -7	Analysis of trends and collections.
Section -3	Psychological Impact
Unit -8	Colour and its effect on mood, season and psyche.
Unit -9	Clothing for physical comfort and protection.Aesthetic appeal of clothing.
Unit -10	Aspects of taste; Symbolism; Status; Values; Attitudes and Class Systems.

Section -4 Fashion Industry

- Unit -11 Historical, current and developmental trends in production, planning and organisation; Economic concepts.
- Unit -12 Apparel production; Career structure and educational requirement; Fashion trends in garments; Industrial structure, pricing and profit;
- Unit -13 CAD/CAM developments in production and retail areas of clothing; Garment centres of industry;
- Unit -14 Retail company structure; Design centres of culture; Retail merchandising of garments; Pricing and profits; Couture house hierarchy, clientele and function.

Section -5 Designers and Sources of Information

- Unit -15 Past and present names and careers; Haute couture and ready-to wear designers; Designers signatures; The making of a collection; The role of the designer.
- Unit -16 The Fashion year, Publications; Media; Trade Shows; Collections; Bibliographies; Museums; Guilds; Industrial Institutes

Reference Books:-

1. A Visual History of Costume series by B. T. Batsford:-
2. The Fourteenth & Fifteenth Centuries by Margaret Scott (1986)
3. The Sixteenth Century by Jane Ashelford (1983)
4. The Seventeenth Century by Valerie Cumming (1984)
5. The Twentieth Century by Penelope Byrd (1986)

BFT-024 Advanced Drafting, Draping and Construction Techniques

Section -1 Men's Wear Drafting

- Unit -1 Master the vocabulary related to men's wear design.
- Unit -2 Identify the morphological components of the human form related to the masculine cut.
- Unit -3 Trace and develop the various men's wear blocks.

Section -2 Women's Wear Drafting 1

- Unit -4 Understand the vocabulary related to women's wear.
- Unit -5 Identify configuration of the female silhouette in relation to the cut of a garment.
- Unit -6 Draft master patterns for slopers (blocks).
- Unit -7 use them to develop pattern interpretation according to the style lines of a sketch.
- Unit -8 fashion photograph, for standard industrial dress forms.

Section -3 Women's Wear Drafting 2

- Unit -9 Identify the configuration of the female silhouette in relation to the cut of more complex garments.
- Unit -10 Develop pattern interpretation according to the style lines of a sketch or fashion photograph.

Unit -11 create muslins from the patterns constructed and analyze them on the mannequin.
 Unit -12 Understanding the principles of dart transfer, manipulation and pivoting.
 Unit -13 Execute full size basic blocks in accordance to the measurement specified.

Section -4 Women's Wear Drafting 3

Unit -14 Identify the configuration of the female silhouette in relation to the cut of more complex garments.
 Unit -15 Provide the students with the ability to draft master slopers (blocks) and to use them to develop pattern interpretation according to the style lines of a sketch or fashion photograph.
 Unit -16 Develop the student's ability to create muslins from the patterns constructed and analyze them on the mannequin.

Reference Books:-

1. Advanced Framing Methods: Builders Essentials (Means Builder's Essentials) - Paperback (June 2002) by Scott Simpson
2. Computer Applications in Near Net-Shape Operations (Advanced Manufacturing) - Hardcover (Dec. 15, 1999) by Andrew Y.C. Nee, Soh K. Ong, and Yun G. Wang
3. Advanced Building Systems: A Technical Guide for Architects and Engineers - Hardcover (July 3, 1999) by Klaus Daniels

BFT 025 Computer Application

Section -1 Prepare Spreadsheets

Unit -1 Access MS Excel, Copy Excel spreadsheets to MS Word.
 Unit -2 Widen columns, Label columns.
 Unit -3 Alphabetize lists, Sort data.
 Unit -4 Insert decimals and dollar signs
 Unit -5 Insert formulas to add, subtract.
 Unit -6 multiply and divide.
 Unit -7 Use formulas to calculate minimums, maximums, and averages.
 Unit -8 Combine spreadsheets, Save spreadsheets.
 Unit -9 Retrieve spreadsheets, Add "fluff" to appearances of spreadsheets.
 Unit -10 Create assigned spreadsheets for specific application use

Section -2 Advanced Calculations and conditions

Unit -11 Relative & Absolute addressing.
 Unit -12 Format: Style, Autoformat, Conditional formatting.
 Unit -13 Tools: Goal Seek, Solver, In-built function: sumif(), product(), even(), Concatenate(), exact(), left(), right().

Section -3 Protection and security

Unit -14 Protect Sheet, Protect Workbook, File Security

Section -4 Database

Unit -15 Access Data Base, Enter data into D-Base, Save data in D-Base, Access files in D-Base, Save files in D-Base, Manipulate data, Extract information

Section -5 Powerpoint

Unit -16 Access Powerpoint, Develop picture/word combination, Develop a presentation in powerpoint, Print from powerpoint

Reference books:-

1. Glencoe Keyboarding with Computer Applications, Student Edition, Lessons 1-150 by Glencoe McGraw-Hill (Hardcover - Jan 3, 2006)
2. Century 21 Computer Applications & Keyboarding by Jack Hoggatt, Jon A. Shank, and Jerry W. Robinson (Hardcover - Mar 2, 2001)

BFT 026 Fashion Merchandising, Fashion Industry, Marketing and Management

Section -1 Process Control

Unit -1 Application of process control approach in apparel manufacturing through estimation of labor productivity.

Unit -2 m/c productivity, quality and cost control

Section -2 Quality control

Unit -3 Quality control parameters from raw fabric to finished garment for monitoring Process.

Unit -4 Monitoring of pattern making & grading.

Unit -5 Monitoring of cutting process

Unit -6 Monitoring of sewing.

Unit -7 fusing and pressing process

Section -3 Quality parameters

Unit -8 Quality parameters to be checked for finished garment to eliminate rejection.

Section -4 Analysis and Estimation

Unit -9 Inspection, defects analysis.

Unit -10 estimation of value loss both for fabric and Finished garment

Unit -11 classification of on 4-point system.

Unit -12 6-point system,10-point System.

Unit -13 major and minor defects, garment rejection.

Section -5 Evaluation

Unit -14 Evaluation of sewing process to assist process control in apparel manufacturing .

Unit -15 Evaluation of sew ability. -Evaluation of thread tension. -Evaluation of damage on thread, fabric needle for control of sewing speed, needle heating, thread tension.

Unit -16 Knowledge on standard norms for various process and quality parameters.

Reference Books:-

1. Managing Quality in the Apparel Industry. By Mehta & Bharadwaj.
2. Dress designing by Monmeet Sodhia.
3. Industrial Automation and Process Control - Textbook Binding (Sept. 27, 2002) by Jon Stenerson
4. Statistical Process Control and Quality Improvement (5th Edition) - Paperback (June 15, 2003) by Gerald M. Smith

Year III

BFT 031 Fashion Illustration

Section -1 Principles of design and Elements of design

Unit -1 Principles of design-balance.

Unit -2 rhythm, harmony, emphasis, proportion.

Unit -3 line, shape, colour, texture.

Unit -4 line-directing, dividing, psychological effects of line.

Unit -5 illusion. shape-geometric, natural.

Unit -6 objective, non- objective, silhouettes, colour-colour wheel, color schemes, color psychology .

Unit -7 texture-visual, tactile, audible.

Section -2 Construction Drawing

Unit -8 Understand the structure of the object.

Unit -9 construct drawing based on the structure to be able to draw different orientations of the object.

Unit -10 Representation drawing will help in understanding the characteristics of the objects.

Unit -11 its material and texture including color and form.

Section -3 Calligraphy &Typography

Unit -12 Practice of writing by hand on the basis of study of traditional way of hand writings.

Unit -13 scripts like Indian manuscripts.

Unit -14 Persian, Chinese, Japanese and roman etc

Section -4 Society and Articulation

Unit -15 Study, interact, observe and document the socio – cultural.

Unit -16 prejudices and beliefs to form clear understanding of the role of motif and place in communication system

Reference Books:-

1. Contemporary Fashion Illustration Techniques by Naoki Watanabe (Paperback - Jun 1, 2009)
2. Essential Fashion Illustration by Maite Lafuente (Paperback - Feb 1, 2006)

BFT 032 Volume Production & Quality Control

Section -1 Operation Function in an Organization

Unit -1 Manufacturing Vrs Service Operation.

Unit -2 System view of Operations, Strategic Role of Operations.

Unit -3 Operations Strategies for Competitive Advantages.

Unit -4 Operations Quality and Productivity Focus.

Unit -5 Meeting Global Challenges of Production and Operations Imperatives.

Unit -6 Designing Products, Services and Processes New Product Design.

Unit -7 Product Life Cycle, Product Development Process, Product Quality and Reliability Design, Process Technology

Section -2 Job Design and Work Measurement, Method Study

Unit -8 Techniques of Analysis, recording, improvement and standardization.

Unit -9 Work Measurement : Work Measurement Principles using Stopwatch Time Study.

Unit -10 Predetermined Motion Time Standards and Work Sampling, Standard Time Estimation.

Section -3 Location and Layout Planning

Unit -11 Factor Influencing Plant and Warehouse Locations, Impact of Location on cost and revenues.

Unit -12 Facility Location Procedure and Models : Qualitative Models, Breakeven Analysis, Single Facility, Location Model, Multi-facility Location Model, Mini max Location, Total and Partial Covering Model

Section -4 Forecasting

Unit -13 Principles and Method, Moving Average, Double Moving Average, Exponential Smoothing.

Unit -14 Double Exponential Smoothing, Winter's Method for Seasonal Demand, Forecasting Error Analysis

Section -5 Manufacturing Planning and Control

Unit -15 The Framework and Components : Aggregate Planning, Master Production Scheduling, Rough-cut-Capacity Planning, Material Requirements Planning, Capacity Requirements Planning, Shop Order System and Purchase Order System.

Unit -16 Transportation Method for Aggregate Production Planning, Material Requirement Planning, Scheduling and Dispatching Functions, Progress Monitoring and Control.

Reference Books:-

1. Introduction to Statistical Quality Control - Hardcover (May 2, 2008) by Douglas C. Montgomery
2. Quality Control for Dummies - Paperback (Jan. 3, 2007) by Larry Webber and Michael Wallace

BFT 033 Leather Technology

Section -1 Histological characteristics of different hides and skins

Unit -1 Buffalo, Cow, Goat and Sheep.Histological characteristics of Hair.

Unit -2 Histological processes for preparation of hides and Skins for observation under microscope,

Unit -3 Photomicrography and its utility in leather science.

Section -2 Application in leather auxiliaries industry

Unit -4 Vegetable Tanning Extraction, Polymer Processing.

Unit -5 Oils, Fats, Soap, Detergent, Dyes, Sodium Sulphide, Sodium Dichromate.

Unit -6 Potassium Dichromate.

Unit -7 Lime, Basic Chrome Sulphate

Section -3 Soaking and Depilation

Unit -8 Different methods of soaking - controls of soaking.

Unit -9 Different methods - Amines in lime liquors.

Unit -10 thermal unhairing -enzymatic unhairing - controls of liming

Section -4 Bating, Pickling and Degreasing

Unit -11 Different types of bating - controls in bating operation for different end characteristics of leather.

Unit -12 Methods of Pickling - Controls Pickling, Different methods - Difference with Currying .

Section -5 Tanning

Unit -13 Identifiable tanning characteristics - Measurement of shrinkage.

Unit -14 temperature -Degree of tannage - Action different masking acids in practical.

Unit -15 Chrome tanning - High Chrome exhaustion tannage - Recycling of Chrome tanning, liquors - Detanning of Chrome tanned leather.

Unit -16 Tannage with Aluminium salts, Zirconium tannage - Titanium tannage - Iron tannage - Formaldehyde tannage, Glutraldehyde tannage

Reference books:-

1. Automotive Technology: For General Service Technicians by Ronald G Haefner and Paul Leathers (Hardcover - Jan 15, 2007)
2. Tanning Chemistry: The Science of Leather by Tony Covington (Hardcover - Jul 20, 2009)

BFT 034 Knitting Technology

Section -1 Introduction

- Unit -1 Definition of knitting, General Description of Knitting Machine - Flat & Circular.
- Unit -2 Characteristics of Warp Knit & Weft Knit structure.
- Unit -3 Knit, Tuck & Float Stiches & their uses.
- Unit -4 Knitting Needles - Latch beard & compound, Knitting Cycle.

Section -2 Basic weft Knitted structure

- Unit -5 Plain, Single jersy, double jersy, Rib , Interlock & Purl.
- Unit -6 their characteristics & uses in detail.
- Unit -7 ornamentation, derivatives of the structure & their properties.
- Unit -8 transfer of loops, structure based on Rib , interlock gaiting .
- Unit -9 Principles of knitting socks, half-hose, panty hoses and gloves.

Section -3 Wrap

- Unit -10 Warp Knitted Structure from Tricot Warp Knitting Machine like- half tricot, Full tricot.
- Unit -11 lock knit, reserve lock knit.
- Unit -12 Queen's card, Satin, Atlas, Inlay etc

Section -4 Patterening devices

- Unit -13 Patterening devices for Weft knitted structure including Electronic jacquard.
- Unit -14 Knitted garments - Fully cut, Cut Stitch Shaped, Fully fashion, Integral garments.
- Unit -15 Spreading & cutting of Fully cut, Cut Stitch Shaped garments.
- Unit -16 Garment production in flat bed knitting machine

Reference Books:-

1. Knitting Technology, D. J. Spenner
2. Knitting Technology, H. Wirmatt
3. Introduction to Weft Knitting, J. A. Smirfitt
4. Knitting, H. Wingall

BFT 035	Computer Aided Fashion Designing
Section -1	Introduction
Unit -1	Fundamentals of CAD-Definition.
Unit -2	Hardware &Software requirement of CAD.
Unit -3	Design process ,Application and use.
Unit -4	Creating the manufacturing Data base.
Unit -5	benefits of CAD.
Section -2	Hardware in CAD
Unit -6	Introduction.
Unit -7	Design work station, Graphics terminal, input &output devices.
Unit -8	central processing unit &secondary storage
Section -3	Computer graphics software &database
Unit -9	Introduction ,Software configuration of a graphic system.
Unit -10	function of a graphic package, Extruding.
Unit -11	Transformation, Corel draw, Adope photoshop.
Unit -12	Data base structure & content, wireframe vs solid modeling .
Section -4	Basic drawing techniques
Unit -13	Drawing line, Circle, Rectangle, Arc, Polyline, Ellipse, Elliptical Arc , Polygon, Doubts.
Unit -14	Creating point objects, Changing point styles, Free hand sketching, Removing objects, Displacing, Duplicating, Orientation.
Unit -15	Controlling size ,Partial removal, Changing size in one direction.
Section -5	Profile generation
Unit -16	Enhancement drawing, parameter alteration , feature based design process, Dimensioning a sketch, GEOMETRICAL features, modifying features , parametric dimensioning.

Reference Books:-

1. CAD/CAM by Groover & zimmer
2. Computer-Aided Method Engineering : Designing CASE Repositories for the 21st Century - Paperback (Jan. 5, 2001) by Ajantha Dahanayake

BFT 036	Entrepreneurship
Section -1	Characteristics of Entrepreneur & Training
Unit -1	Entrepreneurship- Meaning- Characteristics- function of Entrepreneur- innovation-Risk taking.

Unit -2	Management of Business- Training & Development.
Unit -3	Entrepreneur Development programmer- Schemes etc.
Section -2	Project Formation & Finance to Entrepreneur
Unit -4	Identification of Business opportunities.
Unit -5	Project ideas & Identification through Trade fair, Exhibition.
Unit -6	Agencies- Role of agency- Incentives & subsidies.
Section -3	Selection of Project
Unit -7	Factors to consider for selection of a project Technology.
Unit -8	Marketing, Labor , Location.
Unit -9	Equipment-Project formulation,
Unit -10	Identification- Trade fair & Exhibition Feasibility report- Content – small scale industry.
Unit -11	Promotion- Pricing policy. Object of prices- Profit theory
Section -4	Basics of Knowledge of Business Organization & Economics
Unit -12	Factors of production- Land, Labor, Capital, Enterprise- Forms of business organization Types.
Unit -13	Sole traders, partnership, joint Hindu Family, company, co-operatives, Law of marginal utility
Unit -14	demand curve, demand schedule, Elasticity of demand, Supply-Law of supply
Section -5	Business regulation
Unit -15	Law of contract, Essential Element of contract- Sales of contract, Sales of goods, Sale & Agreement to sell.
Unit -16	Contract of Agency- Classification Agency- Termination- INSURANCE- Tax- Procedure for Registration

Reference Books:-

1. Entrepreneurial Development, P.Saravanel.
2. Business organization – Bhusan Y.K.
3. Principle of economics – M.C.Seth
4. Organization & Management of small scale industry – Vasanth Desai
