

PANJAB UNIVERSITY, CHANDIGARH-160014 (INDIA)

OUTLINES OF TESTS SYLLABI AND COURSES OF READING

FOR

***Refer to Generic Components Common to all B.Voc. Courses**

**** Summer Industrial Training of 4-6 weeks in a relevant Industry after 4th Semester Examinations**

Semester V

Paper Code	Title	Generic/ Skill Component	Theory/ Practical	Internal (Theory)	External (Theory)	Internal (Practical)	External (Practical)	Credit
*GEN-501	Critical Thinking and Elementary Statistics	Generic	Theory	20	80	--	--	6
GC-502	Introduction To Research Methodology And Report Writing	Generic	Theory	20	80	-	-	6
FTD - 503	Pattern Development and Advance Draping	Skill	Theory & Practical	10	40	10	40	6
FTD - 504	Fabric Techniques and Prototype Development	Skill	Theory & Practical	10	40	10	40	6
FTD - 505	Pattern development through CAD/CAM	Skill	Practical	-	-	20	80	6

Note: Winter Industrial/ In-house Training of 2-3 weeks in a relevant area after 5th Semester Examinations in winter break.

SEMESTER VI

*GEN 601 Entrepreneurship Development

SEMESTER I

Paper Title : FTD 103 BASIC ELEMENTS OF DESIGN

Theory: 40

Internal Assessment: 10

Time:3 hours

Job Role: Level 4- Assistant Designer

Making samples of the following:

1. Basic hand stitches – basting-even, uneven, diagonal; tailor's tacks; back stitch; hemming- visible, invisible.
2. Different types of seams– plain, french, run and fell, mantua maker, slot, lap, piped, counter seam,
3. Different types seam finishes– overcast seam finish, double stitched finish, herringbone finished, edge stitched seam, bound seam finish, pinked seam
4. Application of fasteners- buttons and buttonholes, hooks and eyes, hammer ons.
5. Application of different types of trimmings- laces, pipings, bindings, appliqué.
7. Applications of pattern sewing machine

Suggested Resources for Reading:

1. Debbie AnnGioello - Fashion Production Terms, Fairchild publications, New York
2. Connie Amaden-Crawford ,A Guide to Fashion Sewing,Fourth Edition, 1992, Fairchild Publications.
- 3.

Paper Title : FTD 105 SURFACE ORNAMENTATION TECHNIQUES

Practical : 80

Internal Assessment: 20

Time: 3 hours

Paper Title: FTD 203: PATTERN MAKING AND DRAPING

Theory: 40

Internal Assessment: 10

Time:3 hours

Job Role: Level 4- Assistant Designer

Practical : 40

Internal Assessment: 10

Time: 3 hours

Instructions for Practical Paper

1. Examiner will set total of four questions covering the whole syllabus.
2. Student will attempt any three questions.
3. Each question carries 5 marks.
4. Practical work carries 20 marks and 5 marks for viva-voce.
5. Practical paper will be conducted by the college in collaboration with the respective experts and marks will be submitted to Panjab University.

1. Drafting and stitching of Adult women bodice block and sleeve block
2. Drafting and stitching of Ladies shirt
3. Drafting of Petticoat
4. Drafting and stitching of Salwar and Pyjama
5. Draping of Basic Skirt Block: front, back
6. Preparation; Draping steps
7. Marking; Trueing.

Practical : 40

Internal Assessment: 10

Time: 3 hours

Instructions for Practical Paper

1. Examiner will set total of four questions covering the whole syllabus.
2. Student will attempt any three questions.
3. Each question carries 5 marks.
4. Practical work carries 20 marks and 5 marks for viva-voce.
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Simple Sketching a) Stick figures- Straight and bead

1. Block figure- normal block, child block and female block.
2. Fashion figure- a) normal, eight, ten and twelve head figure.
3. Structure of hands, legs & feet, facial- proportions & drawing of hair.
4. Sketching of gathers, pleats, frills and flounces, necklines, sleeves, collars.
5. Fashion illustration for different occasions
6. Drawing of accessories- shoes, bags, purses, belts, hats and caps.
7. Drawing of Jewellery

Suggested Resources for Reading:

1. Fashion drawing- magazine of Thailand
2. Fashion Drawing- The basic principles by Allen & Julian Seaman.
3. Fashion Illustration- BinaAbling
4. Fashion Drawing Designs- Magazine of Thailand
5. Designing book for children garment:
6. All volumes and Kiddys
7. All volumes of faces
8. Innovative fashion sketching by Rita Gerstem

Paper Title : FTD 205 APPAREL CONSTRUCTION BASIC TECHNIQUES

Practical : 80

Internal Assessment: 20

Time: 3 hours

Job Role: Level 4- Assistant Designer

Level 5- Sampling Coordinator

Objectives:

SEMESTER III

UNIT-IV

Enterprise Resource Planning: The Emergence of ERP Systems, Business benefits of ERP, ERP Modules and design alternatives, challenges of ERP implementation, Business Process Re-engineering, ERP system

Paper Title: FTD 303: APPAREL INDUSTRY AND QUALITY CONTROL

Theory: 40

Internal Assessment: 10

Time:3 hours

Job Role:----- Industrial Engineer(IE) Executive

Objective :To acquaint the students about – Quality control, labeling and packaging. Special purpose machine in Apparel Industry and Various Laws and Regulations related to textiles.

Suggested Resources for Reading:

1. Managing quality by S K Bharadwaj and P U Mehta, New Age Publishers-Delhi.
2. ISO 9000- Textile Committee Mohali.
3. Textiles by Sara J. Kadolph

Objectives: To equip students with the knowledge of fashion photography. To enable them to understand the various aspects of fashion photography

Practical based on FTD 303

Practical : 40

Internal Assessment: 10

Time: 3 hours

Instructions for Practical Paper

1. Examiner will set total of four questions covering the whole syllabus.
2. Student will attempt any three questions.
3. Each question carries 5 marks.
4. Practical work carries 20 marks and 5 marks for viva-voce.
5. Practical paper will be conducted by the college in collaboration with the respective experts and marks will be submitted to Panjab University
6. The examiner will set questions covering the whole syllabus
7. Each question can be sub-divided into parts according to the paper setter.

Paper Title: FTD 304: FUNDAMENTALS OF MARKETING & FABRIC TECHNOLOGY

Theory: 40

Internal Assessment: 10

Time:3 hours

Job Role:----- Industrial Engineer(IE) Executive

Objective :To acquaint students with the concept of selling and marketing To give a thorough understanding of product planning, pricing and practices.

Instructions for Examiner:

1. The syllabus of this paper has been divided into FOUR units.
2. Examiner will set a total of NINE questions comprising Two questions from each unit, including Question No. 1 (compulsory) of short answer type covering the whole syllabus.
3. The students are required to attempt one question from each unit and the entire Compulsory Question No. 1.
4. All questions carry equal marks.

Unit – I

Meaning, Nature and Scope of Marketing.

The Marketing Systems.

Product Life Cycle.

Need for Product Innovations and their Development for Variety.

Unit – II

Factors influencing pricing decisions

Pricing strategies

Pricing Methods

Unit – III

Distribution System

Channels of Distribution – Types and Functions – Role of Middleman.

Unit – IV

Marketing Research to study Consumer Demand

Stages of Marketing Research Process.

Types of Surveys.

Consumer Demand and Fashion Marketing, Fashion Change and Consumer

Suggested Resources for Reading:

1. Amarchand, D. and Varadarajan, B.: An Introduction to Marketing Management, (1981), Vikas Publishing House Private Ltd.
2. Davar, R.S.: Marketing Management, Bombay, (1982), Progressive Corporation Private Limited.
3. Sherlakar S.A.,: Marketing Management, Delhi. (1982), Himalaya Publishing House.
4. Fashion Innovation of marketing by Kathryn Moore Greenwind of Mary.

Instructions for Practical Paper

Practical : 40

Internal Assessment: 10

Time: 3 hours

1. Examiner will set total of four questions covering the whole syllabus.
2. Student will attempt any three questions.
3. Each question carries 5 marks.
4. Practical work carries 20 marks and 5 marks for viva-voce.
5. Practical paper will be conducted by the college in collaboration w

Suggested Resources for Reading:

1. Textiles by Sara J. Kadolph
2. Fabric Science by Pizzato

Paper Title: FTD 305COMPUTER AIDED DESIGNING (CAD) (PRACTICAL)

Practical : 80

Internal Assessment: 20

Time: 3 hours

Job Role:----- Industrial Engineer(IE) Executive

UNIT-I

Concept of Project: Meaning, Characteristics, Classification of Projects, Project Life Cycle and its Phases.
Project Manager: Roles and Responsibilities, Project Management as a Profession.

UNIT-II

Generating and Screening Ideas – Steps, Monitoring the Environment, Scouting for Project Ideas, Preliminary Screening, Project Rating Index. Feasibility Studies – Technical, Financial, Economic, Social, Legal and Managerial.

UNIT-III

Project Appraisal Techniques: Objectives, Types and Methods. Project Risks: Meaning, Types, Measurement of Risk, Decision Tree Analysis (Basic Concepts only).

Project Evaluation – Meaning, Evaluation v/s Appraisal, Objectives, Types of Evaluation, Techniques.

UNIT-IV

Project Organization and Control – Project Network Analysis (Basic concepts of PERT, CPM, Cost and Time Over Run). Project Reporting: Meaning, Purpose, Process, Requirements of a Good Report, Methods, Principles of Good Reporting System.

Suggested Resources for Reading:

1. Project Management - Choudhary - TataMcGraw Hill Pub.

Paper Title: FTD 403: FABRIC HANDLING AND RAW MATERIALS

Theory: 40

Internal Assessment: 10

Time:3 hours

Job Role:----- Industrial Engineer(IE) Executive

Objective:. To create awareness about raw material of textilesand handling of special fabric

Instructions for Examiner:

1. The syllabus of this paper has been divided into FOUR units.
2. Examiner will set a total of NINE questions comprising Two questions from each unit, including Question No. 1 (compulsory) of short answer type covering the whole syllabus.
3. The students are required to attempt one question from each unit and the entire Compulsory Question No. 1.
4. All questions carry equal marks.

UNIT-I

Paper Title: FTD 404: DESIGN DEVELOPMENT AND MERCHANDISING

Theory: 40

Internal Assessment: 10

Time:3 hours

Job Role:----- Industrial Engineer(IE) Executive

Objective:. To create awareness about Design Process, Product and prototype development and to understand the role of sample coordinator and merchandiser

Instructions for Examiner:

1. The syllabus of this paper has been divided into FOUR units.
2. Examiner will set a total of NINE questions comprising Two questions from each unit, including Question No. 1 (compulsory) of short answer type covering the whole syllabus.
3. The students are required to attempt one question from each unit and the entire Compulsory Question No. 1.
4. All questions carry equal marks.

UNIT-I

Design Development Process: First level-Inspiration and Concept, Research Direction-Fashion Prediction, Research- The fashion cycle, Fashion and Art . Second Level- Design Development, Textiles- textures, drape, handle, surface decoration, Technical Development - draft model

UNIT-II

Fashion Industry and new product development-Role of the designer, The influence of Haute-couture, Organization of Fashion industry , The sequence of events

UNIT-III

Visual Merchandising , Role and Responsibilities of Merchandiser

UNIT-IV

Fashion Distribution-Departmental stores, Specialty stores ,Chain stores, Mill Show rooms, Factory Outlets, Catalogue retail stores, Discount store, Designers retail stores, Franchise retail stores, Boutique

Practical Based on FTD 404

Practical : 40

Internal Assessment: 10

Time: 3 hours

Instructions for Practical Paper

1. Examiner will set total of four questions covering the whole syllabus.
2. Student will attempt any three questions.
3. Each question carries 5 marks.
4. Practical work carries 20 marks and 5 marks for viva-voce.

3. Exercises in visually assessing and relating fashion illustration to the specification sheets.
4. Client profile
8. Fabric and colour sheet

Suggested Resources for Reading:

1. Coreldraw X5 In Simple Steps ,”Kogent Learning Solutions Inc”, Wiley India Pvt.Limited, 2011.
2. Corel Draw by BPB Publication
3. Drake and Nicholas, “Fashion Illustrations”, 1994,Thames and Hudson, London.
4. AblingBina, Fashion Sketch Book”, 2006, by Fairchild publication.
5. Fashion Caledeoscope by MeharCastelen

SEMESTER V

Paper Title : GC 502 - INTRODUCTION TO RESEARCH METHODOLOGY AND REPORT WRITING

Theory: 80

Internal Assessment: 20

Time:3 hours

Job Role:---- Online Sample Designer

Objective: The objective of the module is to familiarize the students with basics of research methodology like types of research, data collection, sampling techniques and report writing.

Instructions for Examiner:

1. The syllabus of this paper has been divided into FOUR units.
- 2.

UNIT I

Analysis of bodice block and Contouring Principle

UNIT II

Terminology used in pattern making- Pattern drafting, flat pattern making, Pattern envelop, template, production pattern, design specification sheet, pattern chart, cost sheet, trueing, blending and equalizing, style lines.

UNIT III

Interlining, lining, facing, interfacings . Pattern layout planning and Different ways of minimizing waste , fabric estimation and calculation of the fabric requirement for one garment sample.

UNIT IV

Altering patterns- lengthening and shortening pattern, Bust alterations, Waist and hip alterations, sloulder back and sleeve

Practical : 40

Internal Assessment: 20

Time: 3 hours

Instructions for Practical Paper :

1. Examiner will set total of four questions covering the whole syllabus.
2. Student will attempt any three questions.
3. Each question carries 5 marks.
4. Practical work carries 20 marks and 5 marks for viva voce

6. Development of Patterns of: Saree Blouse: Plain and Choli ,

7. Kurta: A-line; Kalidaar

8. Any one of the Halter neck one piece dress, Off shoulder – single and both, One piece fitted dress with gathers in princess line

Suggested Resources for Reading:

1. The Practical Encyclopedia of Sewing: By-Dorothy Wood
2. Lorenz Books The Complete Book of Sewing: Dorling Kindersley
3. The Sewing Book by Alison Smith

Paper Title: FTD 504 FABRIC TECHNIQUES AND PROTOTYPE DEVELOPMENT

Theory: 40

Internal Assessment: 10

Time:3 hours

Job Role:---- Online Sample Designer

Objective:. To handle and monitor new product development, regular follow up with all sampling like: proto sample, size sets, fit samples. To create awareness about threads and their classification. Required tools & materials for different types of embroidery. To give introduction to computerized embroidery.

Instructions for Examiner:

1. The syllabus of this paper has been divided into FOUR units.
2. Examiner will set a total of NINE questions comprising Two questions from each unit, including Question No. 1 (compulsory) of short answer type covering the whole sy

UNIT III

Dyes and stages of dyeing: fiber, yarn, piece dyeing, product dyeing. Process of Batik dyeing , tie& dye, marble printing.

UNIT IV

Printing: Definition , methods and types of printing techniques; Direct, Resist, Discharge, Mordant and transfer printing.

Practical : 40

Internal Assessment: 10

Time: 3 hours

Instructions for Practical Paper

1. Examiner will set total of four questions covering the whole syllabus.
2. Student will attempt any three questions.
3. Each question carries 5 marks.
4. Practical work carries 20 marks and 5 marks for viva-voce.
5. Practical paper will be conducted by the college in collaboration with the respective experts and marks will be submitted to Panjab University
6. The examiner will set questions covering the whole syllabus
7. Each question can be sub-divided into parts according to the paper setter.

1. Make Samples with Dyeing and Printing techniques - Tie and Dye , Batik , Stencil, Screen and Block printing
2. Developing innovative techniques in hand painting (colour blending)
3. Procure or make a tech pack or Design a theme based garment by hand sketches or by Computer Aided Design
- 4.. Identify better or new sources /suppliers for sampling development , fabrics, trims or surfaces ornamentations as applicable to fashion garments and the style
4. Creating various fabric surfaces using any surface technique
5. Determine the size of your samples.

6. Create a pattern as per design details.
7. Developing a prototype with the help of muslin.
8. Check the assembled garments in accordance with flow of samples to specification sheet.
9. Test fit finished proto-type and compare based on specification sheet
10. Checking on the dress form for any faults and correcting them on paper pattern

Suggested Resources for Reading:

1. The Practical Encyclopedia of Sewing: By-Dorothy Wood
2. Lorenz Books The Complete Book of Sewing: Dorling Kindersley

Paper Title: FTD 505:PATTERN DEVELOPMENT THROUGH CAD/ CAM

Practical : 80

Internal Assessment: 20

Time: 3 hours

Job Role:---- Online Sample Designer

Objectives :To enable the students to understand the fundamental principles of CAD/CAM in Apparel Design, Style variations, grading and marker making Digitize the manual pattern on the CAD software .
Plotting the pattern for making prototype

Instructions for Practical Paper : (for 80 marks)

1. Examiner will set total of four questions covering the whole syllabus.
2. Student will attempt any three questions.
3. Each question carries 15 marks.
4. Practical work carries 30 marks and 5 marks for viva-voce.
5. Practical paper will be conducted by the college in collaboration with the respective experts and marks will be submitted to Panjab University

1. Introduction to toolbars- Standard , piece, edit, toolkit, rotate, internal, segment, dart, pleat, fabric and strips
2. Introduction to Menu – File Menu, edit Menu, piece Menu, point Menu, segment Menu, internal Menu, ,dart Menu, pleat Menu, seam Menu, walk Menu, view Menu
- 4 . Draft the pattern on the CAD software as per specification given
 - i) Trouser Pattern Making– Notches, Orientation, Tools
 - ii) Basic bodice Block – Modifications and variations
 - iii) Shirt/ Jacket Pattern Making
- 5.Prepare tech pack as per inputs from clients and self-imagination

SEMESTER VI

Paper Title: GC 602 -TOTAL QUALITY MANAGEMENT

Theory: 80

Internal Assessment: 20

Time:3 hours

Job Role:---- Online Sample Designer

Objective: The objective of the paper is to provide knowledge to students of the concepts of total quality management and to inculcate among them a concern for quality and customer satisfaction.

Instructions for Examiner:

1. The syllabus of this paper has been divided into FOUR units.
2. Examiner will set a total of NINE questions comprising Two questions from each unit, including Question No. 1 (compulsory) of short answer type covering the whole syllabus.
3. The students are required to attempt one question from each unit and the entire Compulsory Question No. 1.
4. All questions carry equal marks.

UNIT I

Introduction: Definition of Quality, Dimensions of Quality, Quality Planning, Quality costs and its Analysis, Basic concepts of Total Quality Management, Principles of TQM.

Paper Title: FTD 603: WEBSITE HANDLING AND ADVANCE CAD/ CAM

Theory: 40

Internal Assessment: 10

Time:3 hours

Job Role:---- Online Sample Designer

Objectives: This course will enable the student to build and publish web sites using HTML, DHTML, CSS, JavaScript and Dreamweaver.

Instructions for Examiner:

1. The syllabus of this paper has been divided into FOUR units.
2. Examiner will set a total of NINE questions comprising Two questions from each unit, including Question No. 1 (compulsory) of short answer type covering the whole syllabus.
3. The students are required to attempt one question from each unit and the entire Compulsory Question No. 1.
4. All questions carry equal marks.

Unit -I

Web Server; Web Client/Browser, How a Browser communicates with a Web Server, Website, Webpage:

Grading of skirt, Trouser, Bodice Block, Shirt

Unit-IV

Introduction to Lay Planning,

Marker making of skirt, trouser on CAD

Marker Making of Bodice, shirt / jacket

Practical based on **FTD 603**

Practical : 40

Internal Assessment: 10

Time: 3 hours

Paper Title: FTD 604: APPAREL CONSTRUCTION ADVANCE TECHNIQUES

Theory: 40

Internal Assessment: 10

Time:3 hours

Job Role:---- Online Sample Designer

Objective :To enable student understand about design process and enhance sketching skills which helps in developing style of his own as per latest trends

Paper Title: FTD 605: PORTFOLIO DEVELOPMENT

Practical : 80

Internal Assessment: 20

Job Role:---- Online Sample Designer

Objective: The art portfolio is an expression of a graduating student's creativity, design/ability, technical expertise and illustration and presentation skills. It should exhibit the students inclination towards and particular segment of the industry by identifying the target