

Course Content

Semester - I

BSCTD-101: History of Indian Textile

- Overview of Indian textile history with reference to geographical, political, religious & economic influences as well as events (natural & man made).
- Ancient, Medieval, Modern Indian historic period's influences- architecture, culture, religion, tradition, people, incidents- Application of these influences in textile design.
- The changing scenario of Indian textiles across the centuries and the states. Mohanjodaro to today. Indus valley civilization, Vedic Period, Mauryan Period , Gupta Period, the Mughal influence.

Book recommended:

The romance of textiles by Ethel Lewis

History of Textile Design by Prof. V. A. Shenai

Question Paper Pattern:

History of Indian Textile (Theory)

7 questions. Do any 5. 15 marks each=75.

BSC TD-102: Introduction to Textiles

PART-A

- Flow chart from fiber to finished fabric
- Fiber classification
- Different methods of fiber identification- physical examination, burning test, chemical test.

PART-B

- Properties of natural fibers (vegetable and animal) i.e. cotton, linen, wool, silk etc.
- Properties of Synthetic fibers i.e. Polyester, nylon, acrylic, etc.

PART-C

- Different yarn formation process i.e. cotton yarn, woolen/ worsted yarn, synthetic or blended yarn- blending, opening, cleaning, carding, doubling, combing, drawing, roving, spinning, yarn twist-S and Z.
- Different types of yarns
- Count and denier systems.
- Fiber quality requirements for different types of yarns and fabrics.
- Industrial visits.

Book recommended:

Introduction to textiles by KVP Singh Kalyani Publishers

Chapters 1 to 2, 4-6

Library reference:

Textiles-Fiber to Fabric by Bernard P. Corbman McGraw Hill

Question Paper Pattern:

Introduction to Textiles (Theory)

7 questions. Do any 5. 15 marks each=75.

BSCTD-103: Computer Fundamentals

Theory

SECTION A

Introduction to Computers

- Computers in our Lives
- Why study Computer Technology
- Importance of Computer Literacy
- Computer in your career (Computer Knowledge opens doors, Computer Graphics & Design)
- Applications of Computers
- History of Computers
- Computer Generations
- Shapes/Types of Computers (Super computers, Mainframe Computers, Minicomputers, Workstations, Personal Computers, Variants of Personal Computers)
- Introduction to Information Technology & Information Technology Industry

Processing Data

- Defining Data, Processing, Knowledge, Information
- How Computers represent data
- Units of measure of computer memory and storage
- Fundamental Computing Model (Input – Process – Output)
- How computers process data

SECTION B

Parts of a Multimedia Personal Computer

- Hardware & Software
- How hardware make system useful.
- Critical hardware –(Motherboard, Processor, Memory, input devices, output devices, storage devices)
- Input Devices, keyboard, mouse, trackball, Alternate input devices (Pen, Touch-screen, Game Controllers, Bar Code Readers, Image Scanners, OCR< Microphones, Video Input, Digital Camera)
- Output Devices, Monitors, Its different types, Comparison of various types of monitors, video controllers, PC projectors, Sound Systems, Printers and its different types, Functioning of various types of Printers.
- Storage Devices, How data is organized on a Magnetic Disk, Magnetic Storage Devices (Floppy Disks, Hard Disks, Magnetic Disks, Tape Drives, Zip Drives), Optical Storage Devices (CD-ROM, DVD-ROM, CR-Recordable, CD-Rewritable, PhotoCD).
- Processing Devices, Central Processing Unit, CPU Speed, Different types of CPUs
- Memory, Cache Memory, Main Memory, Flash Memory (USB Memory Sticks)
- Different Connector Ports, Slots and Boards.
- CVT, UPS

Computer Software

- Explanation of a Computer Software (Need, Definition, Application etc)
- Basic Types of Software (Application Software and System Software)
- Operating System, The role of the operating system, The User interface-GUI and CUI, running programs, Managing Files, Managing Hardware, Utility Software. Different operating systems (Unix, DOS, Mac OS, Windows 3.x, OS/2 Warp, Windows NT, Windows 95 & 98, Linux, Windows 2000.
- Device Drivers, Applications Software - Common Examples

SECTION C

Introduction to Networks

- Introduction to Networks, Need for Networks

Internet

- Understanding Internet, Physical Structure of Internet, Logical Structure of Internet
- Internet Concepts, Common softwares used on Internet (Browsers, Email Clients, Web Servers, Domain Name Servers, Browser Plugins)
- Introduction to a Web Page and Web Site, Web Address.

Computer Security Concerns

- Ergonomics , Ergonomic Workstations, Virus & Antivirus

Introduction to Computer Graphics

- Different Computer Graphic Files like GIF, JPEG, PNG, BMP, TIFF etc
- Introduction to Computer Graphic Application
- Image Scanner, Types, Installation, Basics of Scanning.

Practical

Using a Personal Computer

- Recognizing various parts and switches of a PC & Peripherals
- Starting and shutting down a Windows PC
- Introduction to Windows
- Identifying various components of a Window (Desktop, Task Bar, Icons, Start Menu)
- Using the Mouse
- Introduction to Start Menu, Desktop, Task Bar and Icons.
- Creating a text file.
- Using the Keyboard
- Starting & Closing Computer Application.
- Creating/ Using different types of Computer files like : text files, graphics file, audio file, video file, database file, spreadsheet file, presentation file etc.
- Fundamentals of Data Organization on a PC, Introduction to a File System, Using a File System, Preparing a Drive, Creating, Modifying and Transferring Data on different Drives
- Performing File Management operation in Text Mode and Graphics Mode
- Installing and Uninstalling a Window Based Application.
- Using Windows Accessories.
- Using a Word Processing Application
- Using a Spreadsheet Application

Introduction to Networks

- Identifying a Network, Different Structure of Networks, Network Topologies
- Accessing Resources in a Network
- Sharing Resources in a Network

Internet

- Surfing Internet, Emails, Sending , Receiving and Managing Emails, Address Books

Computer Graphics

- Creating Simple Computer Graphics

Recommended Book:

Peter Norton's Introduction to Computers 4th Ed. By Peter Norton TMGH.

Question Paper Pattern:

Computer Fundamentals (Theory – 75 Marks)

Section A: Objective Type – 10 Questions of 2 Marks each = 20 Marks

Section B: Short Answer Type – 10 Question of 3 Marks each = 30 Marks

Section C: Long Answer Type - 7 Question of 5 Marks each (do any 5)= 25 Marks

BSCTD-104 - Fundamental of Design

Part: A

- Element of Design:-Space, Point, Line, Colour, Shape, Texture
- Principle of Design:-Proximity, Similarity, Emphasis, Harmony, Proportion, Rhythm, Balance.

Part: B

- Repeats: - Straight Horizontal Repeat and Vertical Repeat, Mirror Repeat and Circular Repeat. Half drop horizontal and vertical, $\frac{1}{4}$ drop horizontal and vertical, $\frac{3}{4}$ drop horizontal and vertical.
- Textile Design terminology.

Books Recommended:

Hand book of Textile Design Principles, Process & Practice – Jacquie Wilson
Design Studies By Manmeet Sodhia

Question Paper Pattern:

Practical Exam

BSC TD-105 - Drawing & Sketching

Part -A

- Drawing & sketching; Still Life drawing, line drawing, nature study, human study and quick sketches, Handling different kinds of pencils 4, B, 4B, 6B and charcoal, perspective drawing – single point.

PART-B

- Illustration in textural techniques for textiles
- Inspirational Drawing- inspirations from nature, seasons, objects, fabrics, toys, signs and symbols, surroundings, etc.
- Rendering effects.
- Different Presentation Techniques- collage work, swatch board, front and back, stylization, textural effects, etc.
- Medium exploration – making the students familiar with all mediums like, pencils, water colours, poster colours, inks, crayons, dry pastels, etc.

Books recommended:

How to draw by Foster Walter

Fashion Illustration & Presentation by Manmeet Sodhia

Question Paper Pattern:

Drawing and Sketching (Theory)

7 questions. Do any 5. 15 marks each = 75

Questions will have only illustrative answers.

BSC TD-106: Soft Skill (English)

Course contents same as other courses of PTU

BSCTD-107: Color & Texture

PART-A

- What is Color?
- Dimensions of colour- hue, intensity and value.
- Colour wheel and its various Color Schemes- primary, secondary, tertiary, quaternary, warm and cool colours, analogous colours, complimentary and split complimentary, tints, tones and shades, achromatic and monochromatic colours, pastels and dusty pastels - effect of these colour schemes.
- Effects of Colors- red, blue, green, yellow, orange, pink, purple, grey, black, white, neutrals.
- Colour combinations for textile.
- Factors affecting the choice of colours- effect of light, texture, age, size, personality, complexion, occasion.

PART-B

- Types of textures- thread pulling, thread crumple, thread rolling, paper dabbing, wax rubbing, wax drop, smoke, blade, leaf, flower, butterfly, lace, jute, thumb, matchstick, sponge, cabbage, potato, onion, chilly, lady finger, ink drop, ink blow, drop ink, batik, leather, dry brush, mesh, comb, cloth dabbing etc.
- Textural effects, use of textures in textile designing.

Book recommended:

DESIGN STUDIES by Manmeet Sodhia Kalyani Publishers

Chapters 1 to 9

Library reference:

Fashion and color by Mary Garthe Rockport Publishers

Color Harmony 2 by Bride M.Whelan Rockport Publishers

Question Paper Pattern:

Colour and Texture (Theory)

7 questions. Do any 5. 15 marks each=75.

The questions from PART A of the syllabus will have answers both descriptive and illustrative. The questions from PART B will have only illustrative answers.

Course Contents Semester II

BSCTD-201: Fabric Studies

PART-A

- Different methods of fabric formation i.e. weaving, knitting, non- woven
- Comparative study of woven, knitted and non woven fabrics.

PART-B

- Different types of weaves – plain, satin, sateen, twill, bird's eye, jacquard, basket, ribbed, crepe, pile, dobby, triaxial, lappet.
- Properties and uses of different weaves.
- Construction of different weaves- their EPI and PPI
- Different types of weaving machinery, i.e. dobby, jacquard.
- Common defects in weaving.

PART-C

- Non-wovens
- Classification of non wovens
- Properties and end uses of non wovens
- Different methods of production- Web formation, bonding, finishing.
- Industrial visits.

Book recommended:

FABRIC STUDIES by KVP Singh Kalyani Publishers

Library reference:

Textiles-Fiber to Fabric by Bernard P. Corbman McGraw Hill

Question Paper Pattern:

Fabric Studies (Theory)

7 questions. Do any 5 .15 marks each=75.

BSCTD-202: Traditional Indian Textiles

PART-A

- Indian traditional textiles (embroided- kasida, chickenkari, Kantha, phulkari)
- Traditional embroideries of Chamba rumal, kathiawar, kutch, gujarati, Sindhi, gold and silver embroidery.
- Fabric, Colours, motifs, stitches used in Indian traditional embroidery.
- Practical - preparation of embroidery samples of various states of India- phulkari, chickenkari, Kantha, kasida, Chamba rumal, Kathiawar, Kutch, gujarati, sindhi, gold and silver work- lurex, bead work, nakshi, dabka, mukaish, etc.

PART-B

- Indian traditional Woven textiles- (kota, baluchaar, brocade, kangiveram, chanderi, tangail)
- Brief history of these textiles.
- Colours and motifs used in these Indian traditional textiles.
- Production processes of various woven Indian textiles.

PART-C

- Printed- (hand block printing-sanganeri), Indian traditional textiles
- Indian traditional Dyed textiles - (Ikat, patola, tie and dye)
- Indian traditional Painted textiles - (kalamkari.)
- Brief history of these textiles
- Colours, motifs, stitches used in these Indian textiles
- Production processes of various dyed, printed and painted Indian textiles.

Book recommended:

DRESS DESIGNING by Manmeet Sodhia Kalyani Publishers

Library reference:

Traditional Indian Textiles by Parul B. Abhishek Publications

Insiders Guide to South India by Brian Bell APA Publications

A celebration of style by Sharada Dwivedi AJSK Publications

Colourful Textiles of Rajasthan by Gulab Kothari Jaipur Printers

Question Paper Pattern:

Traditional Indian Textiles (Theory)

7 questions. Do any 5 .15 marks each=75.

The answers to these questions will be both illustrative and descriptive.

BSCTD-203 Business Management & Textile Industry

Part A:

Concept, Nature, Scope and Functions of Management: Levels of Management : Evolution and foundations of Management Theories – Classical and Neo – Classical Theories : Systems Approach to organization, Modern Organization Theory. Role of Managers, Skills required by managers.

Part B:

Management Planning Process

Planning objectives and characteristics. The concept of policy procedure and forecasting.

Organization

Meaning, Importance and Principles, Departmentation : Span of Control, Types of Organization, Types of Authority, Delegation of Authority.

Staffing

Meaning Job Analysis: Manpower Planning, Recruitment, Transfers and Promotions, Appraisals, Management Development, Job Rotation, Training, Rewards and Recognition.

Motivation

Co-ordination, Communication, Directing and Management Control, Decision Making, Management by Objectives.

Part C:

Organizational setup, role of Textile designer, co-coordinator, merchandiser, weaver, quality control inspector, basic work environments, balancing Production systems, quality control from design to dispatch, charting and layouts. Industry visit.

Books Recommended:

Management Today - Burton & Thakur

Principles & Practices of Management- C.B. Gupta

Management Principles- Tripathi & Reddy

Principles of Management - Terry & Franklin

Essentials of Management - Koontz O' Donnell

Hand book of Textile Design Principles, Process & Practice – Jacquie Wilson

Question Paper Pattern:

Business Management & Textile Industry (Theory)

7 questions. Do any 5 .15 marks each=75.

The answers to these questions will be descriptive.

BSCTD-204 Textile Ornamentation

Part A:

- Introduction to embroidery- all contemporary stitches- stem, back, running, dot, seeding, straight, chain, open chain, twisted chain, wheat tear, lazy daisy, blanket, buttonhole, zigzag chain, double chain, raised chain, spider's web, sheaf, brick, Florentine, holbien, Pekinese, cut work, four sided, goblin, woven bars, cretan, fly, French knots, bullion knots, German knots, fish bone, Romanian, satin, long and short, couching, Jacobean trellis, thorn, cross stitch, chevron, herringbone, appliqué work
- Ribbon work, lace work, rope work, other decorations and trimmings.
- Market survey of fabrics, buttons, and trims.

Part B:

- Theory of Tie and Dye Process like Bandhej, Bandhini, Leheria, Shibori and Tritik.
- Batik

Books Recommended:

Guide to Embroidery Stitches - Jennifer Campbell

Elementary idea of textile dyeing, by KVP Singh Kalyani Publishers

Step by Step Needlecraft Encyclopedia by Judy Brittain Dorling Kindersley

Question Paper Pattern:

Practical Exam.

BSCTD - 205: Introduction to Computer Graphics

Section A

Word Processing Programmes

- Word Processing Programmes and Their Uses
- The Word Processor's Interface
- Entering & Editing Text , Copying, Cutting, Pasting
- Formatting Text, Character Formats (Fonts, Type Size), Paragraph Formats (Line and Paragraph Spacing, Indents and alignments, Tabs & Tab Stops, Borders, Shading and Shadows), Document Formats (Page and Size and Orientation, Headers and Footers, Columns and Sections).
- Special Feature of Word Processing Software Language Tools – (Spell Checker, Grammar Checker, Thesaurus), Tables, Mail Merge, Adding Graphics & Sounds
- Converting Documents into World Wide Web Pages.

Word Processing Practical:

- File : Save as a web page, Search options, viewing page properties, customizing page setups, margins, paper, layouts
- Edit: Using goto to go to Page, Footnotes, End Note
- View: Header, Footer, Zoom, Normal Layout, Web Layout, Print layout, Outline Layout, Toolbars, Creating a Custom Toolbar.
- Insert: Symbols, Comments, Pictures, Bookmarks, Hyperlinks, Files
- Format: Background, Themes, Auto Formats, Bullets & Numbering, Border & Shading Tab Settings.
- Tools: Language, Word count, Thesaurus, Password Protecting a file, Auto Correct, Options Settings overview, using Mail Merge Wizard, Envelops & Letters Wizard.
- Table: Drawing, Inserting, Deleting, Sorting a Table , Merge cells, Split cells. Auto fits.
- Window: Split, Arrange, Switching between documents
- Help: About Microsoft Word.

Spreadsheet Software

- Spreadsheet Programs and their uses
- The spreadsheet's interface
- Entering Data in a Worksheet, Labels, Values, Dates, Formulas,
- Editing and Formatting a worksheet
- Adding Charts and Images to a Worksheet.

Presentation Graphics

- Basic purpose of Presentations, Slides
- Presentation Programme Interface
- Process of creating a presentation
- Basic rules of a good presentation
- Formatting Slides
- Creating Slide Shows

Presentation Graphics Practical

- File: Page Setup, Slide Sizes & Orientation, Orientation of Slides, Notes, Handouts Outlines.
- Edit: Duplicate, Delete, Select all, Find & Replace
- View: Normal, Slide Sorter, Slide Show (F5), Notes Page, Master slide master, handout master, notes master] , Color & Grey Scale, Toolbars, Grids & Guidelines, Header Footer, Zoom
- Insert: Slide No, Duplicate, Text Boxes, Pictures, Table, Slide from Files
- Format: Font, Slide Layout, Slide Design, Background, Setting the default settings.

- Tools: Spellings
- Slide Show: View Show, Setup Show, Rehearse Timings, Animation Scheme, Custom animations, Custom Shows, Slide Transitions, Hide Slide, Animation Scheme, Custom Shows.
- Window: Arrange All, Cascade, New Window, and Switch between windows.
- Help, Office Assistant

Section B

Computer Graphics

- Basic Computer Graphics Skills (using CorelDraw or Macromedia Fireworks or Paint Shop Pro)
- Definition and Difference between Raster & Vector Graphics, Introduction to different computer graphic files like BMP, PNG, TIFF, GIF, and JPEG
- Setting up a graphics page in terms of width, height, resolution and color.
- Creating Basic Shapes like Lines, Rectangles, Squares, Circles, Ellipses, Polygons, Free Form Shapes
- Modifying basic shapes, Selecting the above created shapes, changing lines, fills, colors, textures of the selection.
- Using Text Tool, Creating Text Objects, Changing Font, Font Size and Color of the Text Objects.
- Installing and Using a Scanner. Scanning and Saving files in different file formats according to file size and resolution.

Securing Computer Data

- User Level Security: Concept of a User, Need for user name and Password in using a Computer. Folder Attributes (Read Only, Hidden) Sharing a folder.
- Using Winzip: Understanding a compressed archive, creating a compressed archive using Winzip. Viewing files in the archive, Adding and Deleting files to the archive, opening files from the archive, extracting files from the archive, assigning passwords to the files in the archive. Meaning of a self extracting archive, creating a executable self extracting archive in winzip.

Section C

Using Acrobat Reader

- Understanding an acrobat file. Opening an acrobat file using acrobat reader, Viewing, Zooming, Adjusting, Rotating opened acrobat document. Using Text Selection and Image Selection tool in Acrobat Reader. Transferring texts and Images from Acrobat reader to Notepad or graphics application using Text & Image selection tools.

Page 22 of 86

PTU/DEP/Fashion/September 2005/Detailed Syllabus

- Adjusting default preferences of the acrobat reader from Edit-> Preferences Menu. Adjusting Thumbnails and Bookmarks window in Acrobat reader. Viewing Document Properties and Securities.

Advanced Internet Usage Concepts

- Understanding a General Web Site:Text Information, Graphical Information, Animations, Navigation Bars/ Menus, Hyperlinks and Forms.
- General Types of Sites: Simple Profile Website, Web Portals, Email Sites, Search Engines .
- Using a Search Engine to Find Information on the Net.
- Popular Search Engine Sites like, Google, Yahoo, Lycos, Rediff Search etc.
- Understanding a search “keyword”, Using “ “ and + signs in specifying keywords.
- Managing Emails: Creating an Online email account, email account user names and passwords, opening an email account, understanding inbox, compose, sent items etc

folders of a web based email account. Creating and Sending Emails. Opening Emails. Sending Attachments with emails. Downloading Attachments from emails.

- Netettiquetes

Books Recommended:

1. Peter Norton's Introduction to Computers, 4th Ed. TMGH
2. Learning Corel Draw by Ramesh Bangia, Khanna Book Publishing Co.P.Ltd.

Question Paper Pattern

Introduction to computer graphics - (Theory)

Section A: Objective Type – 10 Questions of 2 Marks each = 20 Marks

Section B: Short Answer Type – 10 Question of 3 Marks each = 30 Marks

Section C: Long Answer Type - 7 Question of 5 Marks each (do any 5) = 25 Marks

BSCTD-206 Portfolio and Viva

Part a. Portfolio and Viva: 25 marks

Part b. Intro to computer graphics 25 marks

Part c. Textile Ornamentation 25 marks

Question Paper Pattern

Part: A

Students will present a portfolio of all the files/ folders/ projects created during the course of study in I and II semesters. The portfolio should include projects on-color and texture, drawing and sketching, fundamental of design, and introduction to textile science, traditional Indian textiles. Visit reports and any other projects made during the semesters. The external examiner will evaluate the portfolio and take a viva of the student.

The evaluation will be done as follows:

Portfolio: 15 Marks,

Viva: 10 Marks.

The marking must be fair. The spread should be even. Not all students can perform at the same level. Marks should fairly depict the skills level of the student.

The viva will have questions from the syllabus of I and II semesters.

Part: B.

Five Practical Exercises of 3 Marks each will be given to the student based on the Syllabus.

The student has to perform the practical in the Lab. A Viva of 10 Marks will be conducted.

The Evaluation will be as follows:

Lab Practical: 15 Marks

Viva: 10 Marks

The marking must be fair. The spread should be even. Not all students can perform at the same level. Marks should fairly depict the skills level of the student.

Part: C

During the course of study of Textile Ornamentation, students will make a file of practical samples of all embroideries and tie and dye and batik. This file of will be evaluated by the external examiner. During the practical examination, the student will also be asked to make a sample of embroidery and a sample of dyeing.

The Evaluation will be as follows:

Embroidery file: 15,

Embroidery sample: 10.

The marking must be fair. The spread should be even. Not all students can perform at the same level. Marks should fairly depict the skills level of the student.

Guidelines for Conduct of Practical Exam

1. The exam will be held at the learning centers only.
2. The LC will appoint an external and internal examiner for the examination before hand and inform the RLFC office about the same. The external examiner is to be approved by the university.
3. The external examiner should be a competent authority with post, graduation in the subject of examination. He/ She should be a working professional in his/ her field of study.
4. The duration of the examination will be a maximum of three hours depending on the subject.
5. After the completion of the examination, the examiners will mark the papers according to the paper pattern scheme:
Portfolio: 15 Marks and viva- 10 Marks.
Lab Practical: 15 Marks, Viva: 10 Marks
Traditional Embroidery file: 15, Embroidery sample: 10.
The marking must be fair. The spread should be even. Not all students can perform at the same level. Marks should fairly depict the skills level of the student.
6. Evaluation should be done on the basis of neatness, perfection in work, correct marking, proper seaming, folding and presentation, in case of portfolio and traditional embroidery files.
7. A copy of the question paper, attendance sheet of the candidates, award list, duly signed by the internal examiner, external examiner, center head of LC, Should be sent to the RLFC in a sealed envelop.
8. The answer sheets/ practical submission and a copy of awards should be retained by the LC for one year after the declaration of the result by the university.
9. The practical submission/ answer sheet may be reopened by the RLFC/ University for further scrutiny, if need be.

Semester III

BSCTD-301: Textile Dyeing

PART-A

- Theory of Dyeing – Application of various dyes, dye-fibre interaction.
- Classification of Dyes- Natural dyes and synthetic dyes. Direct dyes Reactive, vat, insoluble azoic, indigo sol, acid dyes, basic dyes, sulphur dyes, disperse dyes, pigments.

PART-B

- Methods of Dyeing
- Selection of dyeing methods
- Suitability of dyes according to fiber
- Defects of dyeing.
- Machinery for dyeing.
- Care of fabrics.

PART-C

- Modern techniques of dyeing.
- Rapid and immerse Rapid dyeing techniques.
- Solvent dyeing, foam dyeing, spray dyeing.

Book recommended:

Elementary idea of textile dyeing, by KVP Singh Kalyani Publishers printing and finishing.

Library reference:

Textiles- Fiber to Fabric by Bernard P. Corbman McGraw Hill

Question Paper Pattern:

Textile dyeing and printing- (Theory)

7 questions. Do any five .15 marks each=75.

BSCTD-302 – Textile Finishing

- Introduction to chemicals processing of Textiles, objects of various processes.
- Singeing: Its types, limitations. Change in property of Textiles after singeing.
- Desizing: Types, method details, drawbacks and advantages of different methods, Desizing efficiency.
- Scouring: Mechanism of removal of dirt/dusts as well added and/or natural impurities. Saponification and emulsification. Scouring of colored textiles.
- Bleaching: Various Methods, combined scouring and bleaching, limitation and efficiency of bleaching. Measurement of bleaching efficiency. Bleaching of blended textiles.
- Mercerization: Change in structure of textiles, process details, causticization NH₃ Wet/Hot mercerization. Efficiency of mercerization and its determination.
- Heat setting: Mechanism of the process, various methods of heat setting, change in properties of textiles after heat-setting.
- Carbonization: Object, method details, controlling parameters, drawbacks and advantages.
- Textile finishing: Physical and chemical finishing. Physical finishing methods viz, calendaring, Sanforizing, Softening, crepe finishing etc. details of each methods and their objects. Terry-Wool finishing.
- Chemical finishing: Like crease-resist finish, repellent finish. Resin finishing. Problems associated with various resin finishing methods and measures to reduce these problems. Measurement of finishing efficiency.
- Finishing Machines: Stenter, Sanforizer, Calendar and their working principle.

Books recommended:

Textile processing- Smith

Textile Finishing- W.S. Murphy

Question paper pattern:

Textile finishing (Theory)

7 questions do any 5. 15 marks each =75.

BSCTD- 303- Art Appreciation

All the contents of the syllabus will have descriptive as well as illustrative study in the class. Inferences could be collected from historic books, internet, encyclopedias, etc.

- Western art influences - Application of these influences in textile designing.
- French- Application of these influences in textile designing.
- Roman - Application of these influences in textile designing.
- British - Application of these influences in textile designing.
- Modern Period World Art like, Modern Buildings, Paintings, Architecture, Sculptures, and Films etc- Application of these influences in textile designing.

Question Paper Pattern:

Art Appreciation (Theory)

4 questions do any 3. Each question =25 marks each.

All the questions asked will have answers illustrative as well as descriptive.

BSCTD- 304 Knitting Design Technology

PART-A

- Knitted garments-introduction
- Difference between woven and knitted textiles.
- Classification of knitted garments
- Weft knitted fabrics- plain, rib, purl.
- Warp knitted fabrics- tricot, raschel, kitten raschel, crochet, Milanese knit, simplex.
- Other knitted constructions- jacquard, pile, fleece, high pile, terry knit, velour knit.

PART-B

- Properties and uses of different types of knitted fabrics.

PART-C

- Machinery used for knitting. Flat bed, two-bar warp knitting machine, circular jacquard knitting machine, circular pile knitting machine.
- Quality control
- Defects in knitted fabrics
- Industrial visit.

Book recommended:

Knitting Technology by KVP Singh Kalyani Publishers

Library reference:

Fabric Studies by KVP Singh Kalyani Publishers

Textiles-fiber to fabric by Bernard P. Corbman McGraw Hill

Question Paper Pattern:

Knitting Design Technology- (Theory)

7 questions. Do any 5. 15 marks each=75.

BSCTD-305: Textile Presentation

PART-A

- Creating Survey Boards.
- Creating Mood boards- its application in designing textiles
- Theme boards- its direct relation to creating designs.
- Swatch boards- Use of swatches for surface texture.
- Theme based illustrations- themes could be picked up from nature, surroundings, objects, events, celebrities, sports, jewellery, toys, etc.

PART-B

- Designing and illustrating apparel- using various textile.
- Designing and illustrating soft furnishing - using various textile.
- Designing and illustrating textile accessories.

PART-C

- Creating a printed line- with a theme, using fabrics, surface texture and ornamentation.
- Creating a woven line- with a theme, using fabrics, surface texture and ornamentation.

Book recommended:

Illustrating Fashion by Kathryn Mckelvey Blackwell Series

Library reference:

Encyclopedia of Fashion accessories by Phyllis Tortora Fairchild

Question Paper Pattern:

Textile presentation- (Theory)

2 questions, do any 1 (35 marks)= 35

1 question (40 marks, compulsory) = 40

All answers are illustrative.

BSCTD-306- Basic Fabric Structure

- Basic types of looms and their functions.
- The concept of a repeat in weaving.
- Principles of drafting, lifting plans and denting.
- Uses of weaving plans or graphs.
- Usage & characteristics of simple weaves – plain, warp and weft rib, basket, twill and its derivatives, sateen and satin, usage of different reeds and counts of yarn. Stripes and checks effects.
- Principles of calculation for warp length and width, for sample weaving.
- Weave representation on graph paper.
- Weaving of samples for the above fabric structures with different yarn counts & reeds.
- Fabric structure analysis, EPI, PPI.
- Industrial Visit.

Books recommended:

Textile design & color - Watson.

Advanced textile design- Watson.

Question paper pattern:

Basic Fabric Structure (Practical exam)

2 questions- fabric analysis (35 marks)

fabric construction (40 marks)=75

Semester IV

BSCTD-401: Textile Printing

- Printing methods – Hand block, machine, block, roller and Screen-printing methods. Advantages and drawbacks of all these printing methods.
- Styles of printing: Direct, Discharge and Resist styles on cellulosic, Protein, manmade textiles and their blends.
- Printing paste: Constituents of print paste. Thickener and its types. Function of thickener. Selection of thickener.
- After treatments: Steaming, curing, ageing of Prints.
- Transfer Printing: Various methods of Transfer Printing, selection a paper and dye. Mechanism of various Transfer printing methods. Limitations and advantages of Transfer printing.

Book recommended:

Elementary idea of textile dyeing, by KVP Singh Kalyani Publishers printing and finishing.

Textile Printing- LWC Miles.

Textile Printing- VA Shenai.

Library reference:

Textiles- Fiber to Fabric by Bernard P. Corbman McGraw Hill

Question Paper Pattern:

Textile Printing- (Theory)

7 questions. Do any five .15 marks each=75.

BSCTD-402- Textile Merchandising

PART-A

- Overview of the textile industry-design, production and marketing
- Introduction to merchandising- the activities involved
- Role of merchandiser, qualities of a merchandiser
- Responsibility of the merchandiser
- Visual merchandising and its advantages for the buyer and seller today.
- Fashion calendar
- The planning cycle
- Merchandise planner.

PART-B

- Trend prediction- forecasting, trend/ colour forecasting
- Sales forecasting
- Product selection and mix
- Distribution mix
- Distribution channels, from producer to ultimate consumer
- Supply chains- store retailing, non store retailing
- Buying calendar
- Buying strategy

PART-C

- Customer identification.
- Supplier- retailer relationship
- Sourcing & global sourcing
- Range planning and range building.

Book recommended:

Handbook of textile design Principles, processes and practice- Jacquie Wilson

Library reference:

From Concept to Consumer- Fringes

Compendium of Brand Management by S A Chunawala

Question Paper Pattern:

Fashion Merchandising- (Theory)

7 questions. Do any 5.15 marks each=75.

BSCTD-403: Textile Illustration and Appreciation

All the contents of the syllabus will have descriptive as well as illustrative study in the class. Inferences could be collected from trend magazines, textile journals, internet, etc.

PART-A

- Developing designs for children and teenager apparel, curtains, table cloth, napkins, towels, cushions & lampshades on suggested topics like toys, balloons, nursery print, butterflies, textures, fishes & sea animals , musical instruments etc.

PART-B

- Contemporary Indian textiles.
- The prevalent trends.
- Listing, collecting and illustrating the prevalent trends in textiles/ fabrics.
- Use of prevalent trends in creating more futuristic designs.
- Illustrating the futuristic designs by the use of appropriate mediums and different presentation skills.

PART-C

- Appreciation of any three Textile Designers (one Indian designer compulsory).
- Collecting and illustrating the work of these designers
- Brief history on the work of these designers.

Question Paper Pattern:

Textile illustration and appreciation (Theory)

2 questions, do any 1 (35 marks) = 35

1 question (40 marks, compulsory) = 40

The questions from PART A and PART B will have only illustrative answers, while the questions from PART C will have illustrative as well as descriptive answers.

BSCTD-404 – Computer Aided Print Design

- Develop a Motif.
- Set Motif in different repeat pattern.
- Develop an all-over print design in 4 colors. Set its repeat.
- Develop 2 colourways.
- Apply various textures and effects.
- Importing, saving and exporting images from the web.
- Printing concepts.
- Product development & presentation for interiors.
- Product development & presentation for apparel.

Question Paper Pattern:

Computer Aided Print Design (Practical)

7 Questions of 15 marks each, do any 5 = 75 Marks

Guideline for Conduct of Practical Exam

1. The exam will be held at the learning centers only.
2. The equipment and stationary needed for the examination will be provided by the LC.
3. The LC will appoint an external and internal examiner for the examination before hand and inform the RLFC office about the same. The external examiner is to be approved by the university.
4. The external examiner should be a competent authority with post graduation in the subject of examination. He/ She should be a working professional in his/ her field of study.
5. The duration of the examination will be a maximum of Three hours, depending on the subject.
6. After the completion of the examination, the examiners will mark the papers according to the paper pattern scheme: **5 Practical Questions of 15 Marks each = 75 Marks**
The marking must be fair. The spread should be even. Not all students can perform at the same level. Marks should fairly depict the skills level of the student.
7. A copy of the question paper, attendance sheet of the candidates, award list, duly signed by the internal examiner, external examiner, center head of LC, Should be sent to the RLFC in a sealed envelop.
8. The answer sheets/ practical submission and a copy of awards should be retained by the LC for one year after the declaration of the result by the university.
9. The practical submission may be reopened by the RLFC/ University for further scrutiny, if need be.

BSCTD-405- Advanced Fabric Structure

Part: A

- Introduction to different types of let-off and take-up systems.
- Dobby: - Object of doobby, scope of doobby, different types of doobby.
- Jacquard: - Scope of Jacquard, different types of Jacquard. Jacquard card punching system as per fabric design.
- Different types of non conventional weaving machines. History behind their development. Air-Jet and water-jet weaving machine. Different types of rapier weaving machines.

Part: B

- Uses and characteristics of crepe, double cloth, seersucker, cords, honey comb, huck-a-back, mock leno, weaves, color and weave effect.
- Weave representation of graph paper, weaving of samples for the above fabric structures.
- Fabric structure analysis.
- Industrial visits.

Books recommended:

Textile design & color - Watson.

Advanced textile design - Watson.

Shuttle less weaving - Talavashek & Svaty

Weaving: conversion of yarn to fabric – Lord, PR & Mohammad.

Question paper pattern:

Advanced Fabric Structure (Practical Exam)

2 questions- fabric analysis (35 marks)

fabric construction (40 marks)=75

BSCTD-406: Industry Internship

Student will undertake 15 day Internship in the Textile Industry, Working on Designing and Finally forming a survey report on the industry, its type, its working, its departments and personnel, Jobs undertaken, References, Observations, etc.

Question Paper Pattern:

Industry Internship- 75 marks (Practical / All Internal).

1. The exam will be held at the learning centers only.
2. The LC will appoint an external and internal examiner for the examination before hand and inform the RLFC office about the same. The external examiner is to be approved by the university.
3. The external examiner should be a competent authority with post graduation in the subject of examination. He/ She should be a working professional in his/ her field of study.
4. For industry internship exam, the examiners will evaluate the report prepared by the student after his/ her on job training in the industry.
The report should carry complete knowledge about the industry worked in, its type, its working, its departments and personnel, jobs undertaken, references, observations, precautions, etc.
5. One copy of the industrial report should be submitted to the RLFC office, and one should be retained by the LC for further reference of students. The candidate should be questioned about the points written about the industry.
- 6 A copy of the attendance sheet of the candidates, award list, duly signed by the internal examiner, external examiner, center head of LC, should be sent to the RLFC in a sealed envelop.
- 7 The copy of awards should be retained by the LC for one year after the declaration of the result by the university.
- 8 The practical submission/ answer sheet may be reopened by the RLFC/ University for further scrutiny, if need be.

Semester V

BSCTD-501- Elements of Fashion

PART-A

- Block figures-normal and fashion.
- Basic croqui drawing- all sizes, and all poses (front, back, side, ¾)
- Face analysis.
- Hands and feet.
- Features- eyes, nose, lips, ear.
- Hairstyles.
- Fleshing of block figures.
- Figures in Motion.
- Draping of different Garments
- Illustration of checks, stripes and prints in a garment.

PART-B

- Classic and innovative Fashion Details -Collars, Necklines, Pockets, Sleeves, waistlines, cuffs, skirts, trousers, yokes, waistlines, etc.
- Design Terminology commonly used in the fashion industry

PART- C

- Factors involved in the study of clothing.
- General functional description of clothing.
- Physiological and psychological aspects of fabric comfort.
- Heat and moisture relations in clothing.
- Physical properties of clothing and clothing materials in relation to comfort.
- Bending and shear properties, clothing fit and drape.
- Fabric friction, static electricity and comfort.
- Aesthetic aspects of clothing.
- Influence of fiber yarn characteristics and fabric construction parameters on clothing comfort.
- Current trends and new developments in the study of clothing.
- New materials and finishes, new techniques, new concepts.

Books recommended:

Fashion illustration and presentation by Manmeet Sodhia

Fashion Sketchbook by Abling

Question paper pattern:

Elements of Fashion (Theory)

7 questions, do any 5, 15 marks each=75

PART A will have questions with only illustrative answers. PART B and C will have questions with descriptive and illustrative answers.

BSCTD-502- Innovative Textiles

- What are innovative/techno textiles?
- Identification of types & subcategories of smart & techno textiles.
- Understanding their technologies, properties and functionality.
- Identification of suitable conservation practices.

Books recommended:

Techno textiles

Question paper pattern:

Innovative Textile (Theory)

7 questions, do any 5 (15 marks) = 75

BSCTD-503- Types of Floor Covering

- History of floor covering.
- Types of floor covering- rugs and carpets.
- Special emphasis on Persian & Kashmiri carpets.
- Various influences on the design development for floor coverings.
- Traditional techniques of manufacturing.
- Knotted, tilted, hooked and handloom carpets.
- Their design and representation on graph.
- Contemporary methods of manufacturing.
- Warp and weft pile structures.
- Cut and loop pile structures.
- Different knotting techniques.
- Printed carpets.
- Design a carpet and weave a part of it.
- Industrial visit.

Books recommended:

Carpets and floor covering by Kamla Devi Chattopadhaya.

Fabric Science by J J Pizzuto

Question paper pattern:

Types of Floor Covering (Theory)

7 questions, do any 5 (15 marks) = 75

BSCTD -504- Elements of Interior Design

- Orthographic and Isographic Projection
- Perspective Projection – One point and Two point, Free Hand
- Sociography – Shades and Shadow of Objects
- Presentation Techniques
- Rendering with Pencil
- Rendering Ink
- Presentation Drawing
- Rendering of Student own Work i.e. Perspective Projection
- Furnishing of Residence and Office.
- Furnishing using Accessories

Books recommended:**Question paper pattern:**

Elements of Interior Design (practical)

2 questions, 1 question 35 marks, 1 question 40 marks = 75 marks.

BSCTD-505- Computer Aided Woven Design

- Simulation of various fabric structures.
- Adjustment of material Hue, Harness and quality.
- Scanned fabric corrections or manipulation.
- Change and adjust fabric color.
- Create weave texture according to yarn property and pattern.
- Easy woven pattern creation.
- Material reflection; leather, silk, cotton, etc.
- Create texture library.
- Match different color and texture on 2D designs.
- Product development & presentation for interiors.
- Product development & presentation for apparel.

Question Paper Pattern:

Computer Aided Print Design (Practical)

7 Questions of 15 marks each, do any 5 = 75 Marks

Guideline for Conduct of Practical Exam

1. The exam will be held at the learning centers only.
2. The equipment and stationary needed for the examination will be provided by the LC.
3. The LC will appoint an external and internal examiner for the examination before hand and inform the RLFC office about the same. The external examiner is to be approved by the university.
4. The external examiner should be a competent authority with post graduation in the subject of examination. He/ She should be a working professional in his/ her field of study.
5. The duration of the examination will be a maximum of Three hours, depending on the subject.
6. After the completion of the examination, the examiners will mark the papers according to the paper pattern scheme: **5 Practical Questions of 15 Marks each = 75 Marks**
The marking must be fair. The spread should be even. Not all students can perform at the same level. Marks should fairly depict the skills level of the student.
7. A copy of the question paper, attendance sheet of the candidates, award list, duly signed by the internal examiner, external examiner, center head of LC, Should be sent to the RLFC in a sealed envelop.
8. The answer sheets/ practical submission and a copy of awards should be retained by the LC for one year after the declaration of the result by the university.
9. The practical submission may be reopened by the RLFC/ University for further scrutiny, if need be.

BSCTD-506- Survey & Project

Students work on a Project Studying the Traditional aspects, culture, people, monuments, handicrafts etc of an Indian state and form a Report of their findings in the form of a thesis.

- The report/ thesis should consist of:
 - Objective of the report
 - Acknowledgements
 - Introduction of the report
 - Detailed description of the traditional aspects
 - Illustrations of traditional textile of selected state.
 - Specification sheet of the suggested contemporary methods of design.
 - Sketch/ Picture of the final textile design.
 - Summary of the report.
 - Bibliography

Question Paper Pattern:

75 marks (Practical/ All Internal).

1. The exam will be held at the learning centers only.
2. The LC will appoint an external and internal examiner for the examination before hand and inform the RLFC office about the same. The external examiner is to be approved by the university.
3. The external examiner should be a competent authority with post graduation in the subject of examination. He/ She should be a working professional in his/ her field of study.
4. The examiners will mark the papers according to the paper pattern scheme:

Survey and project- 75 marks (Practical).

The marking must be fair. The spread should be even. Not all students can perform at the same level. Marks should fairly depict the skills level of the student.

5. Evaluation should be done on the basis of neatness, material collected, perfection of work, correct marking, and presentation.
6. For the survey and project examination, the examiners will evaluate the thesis formed by the candidate after studying the traditional aspects of a state. The garments designed on this basis will be evaluated, and the final garment made at the end of the course will also be evaluated. The LC should encourage their students to give a power point presentation of their thesis work, either on a multimedia projector or an overhead projector. One copy of the thesis should be submitted to the RLFC Office, and one retained by the LC for further reference by the students.
7. A copy of the attendance sheet of the candidates, award list, duly signed by the internal examiner, external examiner, center head of LC, should be sent to the RLFC in a sealed envelop.
8. The answer sheets/ practical submission and a copy of awards should be retained by the LC for one year after the declaration of the result by the university.
9. The practical submission/ answer sheet may be reopened by the RLFC/University for further scrutiny, if need be.

Semester VI

BSCTD-601- Textile Quality Standard

- Basic methods study – introduction, method study part in your job, sequence of improvement, principles of motion economy, how to record methods
- Basic work measurements – work measurements, elements, timing, timing errors, rating, allowances, standard time calculation, PMTS
- Balancing – basics, theoretical balance, skills inventory, initial balance, balance control
- Production systems
- Planning and control.
- It's applications in Textile Mills.
- Production and people.
- Training- importance, methods of training, how training can be made effective.
- Charting and layouts- introduction, single line, double line, product layout, process layout.
- Industrial visits.

Books recommended:

Quality Control in Textile Industry by GAV Leaf

Total Quality Control by Fiegenbaum

Question Paper Pattern:

Textile Quality Standard (Theory)

7 questions. Do any 5.15 marks each=75.

BSCTD-602- Textile Costing

- Regulations and restrictions on various types of new and old works.
- Local bye-laws pertaining to textile.
- Procedure from date of enquiry.
- Keeping of costs, job-records, alterations to estimates, modifications.
- Preparation of schedules and progress charts.
- Supervision of sub-trader and sub-contractors.
- Confidential information for client or employers.
- Fee's scale of charges, commissions and discounts retaining fees, rejection fees.
- Conditions of engagement and terms of contract, alternative agreements, out of pockets expenses, stages of payment, settlement of disputes and arbitrations.
- Principles governing new & old work as regards prices.
- Exercises on preparation and calling of tenders.
- Estimation and schedule of quantities for textile items.
- Estimation of at least one complete textile project should be carried out.

Books recommended:

Textile Management – Dr. VD Dudeja

Question Paper Pattern:

Textile Costing (Theory)

7 questions. Do any 5.15 marks each=75.

BSCTD-603- International Marketing

PART- A

- Marketing- its definition & core concepts.
- Marketing Management Production concept. Product concept. Selling concept, marketing and societal marketing concept.
- Marketing information system.
- Marketing research process and various research designs.
- Consumers' behavior, factoring affecting CB, buyer's decision process and type of behavior. Marketing mix: product-levels of product, product hierarchy, stages in new product development.
- Product life cycle & its stages. Product mix, product time.
- Branding- packing and labeling.
- Price – channels of distribution, functions & its flow.
- Promotion- Mix: Advertising, sales promotion.
- Personal selling & public relations, factors in setting the promotion mix with supporting examples from textile industry.

PART-B

- Framework of international marketing
- Factors influencing international marketing
- Motivation to export
- Scope of international marketing
- Difference between domestic and international market
- Steps needed to process an export order
- Export formalities
- Important documents needed
- Export management risk
- Trade barriers

Books Recommended:

Marketing Management – Philip Kotler

Library reference:

Inside Fashion Business by Dickerson Pearson

Garment technology for Fashion designers by Gerry Cooklin Blackwell

Question Paper Pattern:

International marketing

7 questions. Do any 5.15 marks each=75.

BSCTD-604-Dissertation

Detailed research on the given topic, data collection, evaluation & conclusion.

The student will be required to complete their study and submit a comprehensive report.

Question Paper Pattern:

75 marks (Practical/ All Internal).

1. The exam will be held at the learning centers only.
2. The LC will appoint an external and internal examiner for the examination before hand and inform the RLFC office about the same. The external examiner is to be approved by the university.
3. The external examiner should be a competent authority with post graduation in the subject of examination. He/ She should be a working professional in his/ her field of study.
4. The examiners will mark the papers according to the paper pattern scheme:

Dissertation- 75 marks (Practical).

The marking must be fair. The spread should be even. Not all students can perform at the same level. Marks should fairly depict the skills level of the student.

5. Evaluation should be done on the basis of neatness, material collected, perfection of work, correct marking, and presentation.
6. For the survey and project examination, the examiners will evaluate the thesis formed by the candidate after studying the traditional aspects of a state. The garments designed on this basis will be evaluated, and the final garment made at the end of the course will also be evaluated. The LC should encourage their students to give a power point presentation of their thesis work, either on a multimedia projector or an overhead projector. One copy of the thesis should be submitted to the RLFC Office, and one retained by the LC for further reference by the students.
7. A copy of the attendance sheet of the candidates, award list, duly signed by the internal examiner, external examiner, center head of LC, should be sent to the RLFC in a sealed envelop.
8. The answer sheets/ practical submission and a copy of awards should be retained by the LC for one year after the declaration of the result by the university.
9. The practical submission/ answer sheet may be reopened by the RLFC/University for further scrutiny, if need be.

BSCTD-605- Entrepreneurship

- Introduction to Entrepreneurship
- Study of various essential aspects of Entrepreneurship
- Identification and development of essential entrepreneurial skills.
- Entrepreneurship Development.
- 1 month entrepreneurship in the Textile Industry
- Working on Designing and Finally Forming a survey report on the industry, its type, its working, its departments and personnel, jobs undertaken, references, Observations, Precautions, etc.
- The report should have a detailed information about the industry the student joined for entrepreneurship- the type of industry(public sector/ private/ partnership), the names of directors, the departments of the industry, its personnel, their working , the jobs undertaken at the industry, the products being manufactured, the marketing of the products, the raw material being used, the clients, etc.
- The report should also include the work done by the student during his/ her training, specifying what all new was learned during this period.
- The report should be accompanied by the training certificate from the industry.
- It should be signed by the student.

Question Paper Pattern:

75 marks (Practical).

1. The exam will be held at the learning centers only.
2. The LC will appoint an external and internal examiner for the examination before hand and inform the RLFC office about the same. The external examiner is to be approved by the university.
3. The external examiner should be a competent authority with post graduation in the subject of examination. He/ She should be a working professional in his/ her field of study.
4. The examiners will mark the papers according to the paper pattern scheme:

Entrepreneurship- 75 marks (Practical).

The marking must be fair. The spread should be even. Not all students can perform at the same level. Marks should fairly depict the skills level of the student.

5. Evaluation should be done on the basis of perfection in work, correct marking, and complete presentation.
6. For entrepreneurship exam, the examiners will evaluate the report prepared by the student after his/ her on job training in the industry. The report should carry complete knowledge about the industry worked in, its type, its working, its departments and personnel, jobs undertaken, references, observations, precautions, etc. One copy of the industrial report should be submitted to the RLFC office and one should be retained by the LC for further reference of students. The candidate should be questioned about the points written about the industry.
7. A copy of the attendance sheet of the candidates, award list, duly signed by the internal examiner, external examiner, center head of LC, Should be sent to the RLFC in a sealed envelop.
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9. The practical submission/ answer sheet may be reopened by the RLFC/ University for further scrutiny, if need be.