FACULTY OF SCIENCE

SYLLABI

FOR

M.Sc. Home Science (Clothing & Textiles)
(Semester System)
Examinations, 2011-2012

i.e.

1st Semester, November/December, 2011
2nd Semester, April/May, 2012
3rd Semester, November/December, 2011
4th Semester, April/May, 2012

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### SCHEME OF STUDIES

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1st Semester Exam. (Nov./Dec.), 2011

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<td>02</td>
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<td><strong>TOTAL :</strong></td>
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2nd Semester Exam. (April/Mary.) 2012

(i)
### Scheme of examination (old scheme) of 3rd & 4th Semesters examination for 2011-2012

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<td>Dissertation</td>
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<td>Draping</td>
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<td>02</td>
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<td>TOTAL :</td>
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| 4th Semester Exam. (April/Mary.) 2012 |            |        |       |       |          |       |
| 120.       | Dissertation                           | --     | 02    | 100   | --       | 100   |
| 122.       | C.A.D.-II                              | --     | 04    | 80    | 20       | 100   |
| 123**.     | Portfolio Making                       | 03     | --    | --    | 75       | 75    |
| 124.       | Fashion Merchandising (Th.)            | 03     | --    | 60    | 15       | 75    |
| TOTAL :    |                                        | 12     |       |       |           | 350   |
| GRAND TOTAL : |                                      | 64     |       |       |           | 1600  |

* No question paper shall be set for this Practical. Marks will be given by the external examiner on the basis of the Presentation.

** There will be no University Examination for this Practical.

*Note*: Students of M.Sc. (Clothing & Textiles) should undergo Industrial Training of Six weeks in an Export House/Readymade Garment Industrial Unit.
FIRST SEMESTER

COURSE NO. 101 : PATTERN DEVELOPMENT (Pr.)

Total Marks : 100
Paper : 80
Int. Ass. : 20
Credit : 04 Hrs

Objectives:
To impart the knowledge about-

1. Pattern development techniques
2. Commercial paper patterns
3. Grading techniques of paper pattern

INSTRUCTIONS TO PAPER SETTERS :

The paper should be of four hours, balanced and cover the entire syllabus.

1. Measuring anthropometric parameters.
2. Methods of developing pattern:
   (a) Flat pattern method: (i) Slash, (ii) Pivot
   (b) Draping
3. Style reading and designing through flat pattern method by manipulation of basic darts in the bodice and skirt of the following:
   (i) Shifting of dart position.
   (ii) Multiple darts
   (iii) Gathers, tucks and pleats
   (iv) Princess line
   (v) Yokes
   (vi) Contouring Patterns
      • Contoured Block
      • Wrap design
• Off shoulders
• Halters

(vii) Skirt
• Flare
• Gored
• Godet
• Tiered
• Pleated
• Wrap
• Circular
• Skirt with yoke

4. Preparation of Commercial paper pattern
   (i) Skirt

5. Grading
   - Bodice Block
   - Sleeve Block
   - Skirt

References:

COURSE NO. 102 : APPAREL DESIGNING AND ILLUSTRATIONS (Pr.)

Total Marks : 75
Paper : 60
Int. Ass. : 15

Credit No: 03 Hrs

Objectives:
To make students aware of :
1. drawing tools
2. figure drawing
3. creating textures, mediums
4. designing and illustration of dresses, jewellery and accessories.

INSTRUCTIONS TO PAPER SETTERS :
The paper should be of four hours, balanced and cover the entire syllabus

1. Knowledge of drawing equipment, tools and colouring medium.

2. Fashion Figure (croqui) (block and stick figure):
   a. Normal and a Fashion Figure.
   b. Eight, ten and twelve head figure- front, side ¾th profile.
   c. Fleshing of Fashion Figure
   d. Drawing different body parts-eyes, nose, lips, ears, hands, legs, feet, face.
   e. Drawing of hair

3. Drawing of child figures (proportions).
   0-1 year, 2-3 years, 4-5 years, 6-8 years, 8-10 years.

4. Design and Illustration of figure (child and female) in dresses:
   a. Casual wear, sports wear, beach wear, night suits, party wear, indo-western dresses, office wear, ethnic wear and bridal wear.
   b. Colouring of illustration using various mediums.
c. Creating paints, Repeats, colour ways and drapes using various medium.

6. Accessories–Shoe, bags, purses, belts, hats, caps.
7. Developing a design Portfolio.

References:

COURSE NO. 103: FASHION FUNDAMENTALS (Th.)

Total Marks : 50
Paper : 40
Int. Ass. : 10

Credit No. 3 Hrs

Objectives:
To impart knowledge about
1. different components of fashion
2. movement of fashion
3. fashion adoption
4. fashion designers & fashion centres.

INSTRUCTIONS TO PAPER SETTERS
Question paper will have four sections. Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question of short answer type covering the whole syllabus. Students will attempt one question from each unit and the compulsory question. All questions may carry equal marks, unless specified.

UNIT-I


2. Fashion-
   • Definition
   • Principles
   • Components (silhouette, details, texture, colour)

3. Factors affecting fashion-
   • Social
   • Economic
   • Psychological.
UNIT-II

4. Fashion cycle-
   • Stages of Fashion
   • Broken fashion cycle
   • Length of fashion cycle

UNIT-III

5. Fashion Theories
   • Trickle down theory
   • Trickle across theory
   • Bottom-up theory

6. Fashion Leaders

UNIT-IV

7. Sources of inspiration
8. Fashion forecasting.

UNIT-V

(Only for assignments and presentations)

9. Evolution of Fashion through 20th and 21st century
11. National and International fashion centers

References:

COURSE NO. 104 : GARMENT CONSTRUCTION-1 (Pr.)

Total Marks : 75
Paper : 60
Int. Ass. : 15

Credit No. 3Hrs.

Objectives :

To impart knowledge about-

1. Pattern development
2. Construction of different garments.

INSTRUCTIONS TO PAPER SETTERS :

The paper should be of four hours and the paper should be balanced and cover the entire syllabus

Pattern Development and Construction of the following :

1. Party frock
2. Jump suit
3. Skirt and Top-(For Adults)
4. Reversible Jacket (For Adults)

References:

2. Matric Pattern Cutting by Wini Fred Aldrich-New Delhi Om Book.
COURSE NO. 105: CLOTHING ASPECTS (Th.)

Credit 2 Hrs.

Objectives:
To impart knowledge about-

1. origin of clothing
2. effect of clothing on the wearer
3. clothing for different age groups
4. effect of society on clothing

INSTRUCTIONS TO PAPER SETTERS:

Question paper will have four sections. Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question of short answer type covering the whole syllabus. Students will attempt one question from each unit and the compulsory question. All questions may carry equal marks, unless specified.

UNIT-I

1. Origin of Clothing:
   • Theories of Clothing
2. Clothing and first impressions.
3. Motivation

UNIT-II

4. Clothing and Wearer:
   Effect of Clothing on
   • Physical Comfort
   • Mood and Behavior
• Personality and self concept
• Conformity
• Individual Values, interests and attitudes.

UNIT-III

5. Clothing and the age of the wearer:
• Infants and children
• Adolescents
• Adult and Elderly

UNIT-IV

6. Clothing and Society
• Religion and culture
• Occupation
• Ceremonies and Occasions

References:

COURSE NO. 106 : RESEARCH METHODS (Th.)

Credit: 3 Hrs.

Objectives:

To understand-
1. Significance of statistics and research methodology in Home Science research.
2. Types, tools, and methods of research and develop the ability to construct data gathering instruments appropriate to the research design.
3. The appropriate statistical technique for the measurement scales and design.

INSTRUCTIONS TO PAPER SETTERS:

Question paper will have four sections. Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question of short answer type covering the whole syllabus. Students will attempt one question from each unit and the compulsory question. All questions may carry equal marks, unless specified.

Contents

UNIT-I

1. Science, scientific methods, scientific approach.
2. Role of research and statistics in Home Science discipline.
   - Objectives of research: Explanation, control, and prediction.
3. Types of Research: Historical, survey, experimental, case study, social research, participative research.

UNIT-II

4. Definition and identification of a research problem
   - selection of research problem
- Justification
- Theory, hypothesis, basic assumptions, limitations and delimitations of the problem.

5. Types of variables.

6. Theory of probability
   - Population and sample
   - Probability sampling: Systematic random sampling, two stage and multi-stage sampling, cluster sampling.
   - Non-probability sampling: Purposive, quota, and volunteer sampling/snowball sampling.

UNIT-III

7. Basic principles of research.
   - Purposes of research design: Fundamental, applied, and action exploratory, and descriptive experimental, survey and case study, ex-post facto.
   - Longitudinal and cross-sectional.

8. Qualitative research methods
   - Theory and design in qualitative research
   - Definitions and types of qualitative research
   - Methods and techniques of data collection
     - Informal group discussions
     - Interviews: Key informant, in-depth interviews
     - Observations
     - Social mapping
     - Participatory rapid assessment
     - Participatory learning assessment
UNIT-IV

9. Data gathering instruments
   - Observation, questionnaires, interviews, scaling methods, case study, home visits, reliability and validity of measuring instruments.

10. Conclusion and recommendations.

11. Writing a research proposal: American Psychological Association (APA) format, footnotes, bibliography, citations.

References:


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COURSE NO. 107 : CAD-I (Pr.)

Total Marks : 50
Paper : 40
Int. Ass. : 10

Credit : 02 Hrs

Objectives :

To impart knowledge about
1. Basic Computers
2. Adobe Photoshop
3. Corel draw
4. Adobe illustrator

INSTRUCTIONS TO PAPER SETTERS :

The paper should be of four hours and the paper should be balanced and cover the entire syllabus

UNIT-I

REVIEW OF BASIC COMPUTERS

(a) Introduction to computers - Parts, peripherals and their specifications, generation of computers, configuration, basic operations, terminology.

(b) MS Word: (i) Writing a letter in word document; (ii) Formatting, Editing and saving files.

(c) MS Excel: (i) Making Excel spread sheets; (ii) Mathematical operations in excel.

(d) MS Powerpoint : (i) Using PP to make presentations.

(e) Use of Internet: (i) Making an email id.; (ii) Searching different topics

UNIT-II

ADOBE PHOTOSHOP

(a) Study in detail different tools of Photoshop.

(b) Create composition of stripes, checks in various textures and colours.
(c) Pick up a costume worn by a famous fashion model. Scan her figure and redesign the texture and colour combination of the dress.

(d) Design a mood board according to the selected theme.

(e) Create logos, brochures, Pamphlets and visiting cards.

UNIT-III

COREL DRAW/ADOBE ILLUSTRATOR

(a) Detailed study of tools of the software.

(b) Create a composition of geometrical shapes, traditional and contemporary motifs.

(c) Illustrating fashion models figures in different profiles and movement.

(d) Draping the fashion figure in different silhouettes.

(e) Design a complete collection five dresses taking inspiration from surroundings.

(f) Prepare Tech Pack (spec sheets).

References:


4. Internet for Everyone by Alexis Leon and Mathews Leon.


COURSE NO. 108 : TEXTILE TESTING AND QUALITY CONTROL (Th.)

Total Marks : 50
Paper : 40
Int. Ass. : 10

Credit: 2 Hrs

Objectives:
To impart knowledge about-
1. physical properties of textile fibers, yarns and fabrics
2. various testing equipments and methods
3. role of textile testing in quality control

INSTRUCTIONS TO PAPER SETTERS:
Question paper will have four sections. Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question of short answer type covering the whole syllabus. Students will attempt one question from each unit and the compulsory question. All questions may carry equal marks, unless specified.

UNIT-I

1. Physical testing of fibers :
   (a) Fiber length and length distribution, density and specific gravity, fibers fineness and maturity.
   (b) Mechanical properties of fibers:
       Elongation, ductility, plasticity, tenacity, stiffness and resiliency.
   (c) Thermal, electrical and optical properties of fiber.

UNIT-II

2. Yarn types, structure, twist, count and diameter determination.
UNIT-III

3. Fabric testing :

(a) Fabric construction analysis: Weave, ends and picks, count, weight, crimp, thickness.
(b) Porosity, air- permeability of fabric and thermal conductivity.
(c) Dimensional stability of fabrics : Shrinkage: laundering shrinkage, thermal shrinkage and heat setting.


5. Mechanical properties of fabrics:- breaking, bursting and tearing strength of fabrics.


UNIT-IV

8. Role of Textile Testing in Quality Control.

9. Introduction to Quality Control : Definition of quality, importance of quality assurance and final inspection.

10. Concept of Total Quality Management (TQM).

11. Role of various standard institutions and organizations in Quality control.

12. Selection of samples for testing.


14. Parameters for apparel quality testing.

15. Apparel quality analysis : Stitch quality, stitch length, quality of threads, button strength, accessories and embellishments.

16. Packing : Importance and various materials used for packing, care, labels, international care labelling system, Japan/Canada/ British care labelling systems, ECO labelling.
References:

COURSE NO. 109 : STATISTICS & COMPUTERS APPLICATIONS (Th.)

Objectives:
To understand the
1. Role of statistics and computer applications in research.
2. Statistical techniques.

INSTRUCTIONS TO PAPER SETTERS :
Question paper will have four sections. Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question of short answer type covering the whole syllabus. Students will attempt one question from each unit and the compulsory question. All questions may carry equal marks, unless specified.

Note : Students should be given hands on experiences to use appropriate software packages for selected statistical analysis.

UNIT-I
1. Conceptual understanding of statistical measures, classification and tabulation of data, measurement of central tendency, measures of variation.
2. Frequency distribution, histogram, frequency, polygon.

UNIT-II
5. Testing of hypothesis. Type I and Type II errors. Levels of significance.
UNIT-III

8. Correlation, coefficient of correlation, rank correlation.
9. Regression and prediction.
10. Analysis of variance – one way and two way classification.

UNIT-IV

11. Experimental designs.
12. Hands on experience of SPSS software along with data analysis.

References:

COURSE NO. 110 : TEXTILE TESTING AND QUALITY CONTROL (Pr.)

Credit : 3 Hrs

Objectives :
To understand
Usage of various equipments, to analyze physical properties of textiles

INSTRUCTIONS TO PAPER SETTERS :
The paper should be of four hours and the paper should be balanced and cover the entire syllabus

1. Yarn Tests :
   - Structure
   - Yarn Count
   - Breaking Strength

2. Fabric Analysis :
   - Width
   - Count
   - Thickness
   - Weight
   - Crimp

3. Fabric Properties:
   - Moisture content
   - Abrasion
   - Breaking Strength & Elongation
   - Bursting Strength
- Tearing strength
- Dimensional change in laundering

4. Colour fastness to:
   - Laundering
   - Crocking
   - Pressing–dry & wet
   - Perspiration

5. Visit to textile industry.

References:

COURSE NO. 111 : COMMUNICATION TECHNOLOGIES (Th.)

Total Marks : 50
Paper : 40
Int. Ass. : 10

Credit: 2 Hrs

Objectives:
To develop understanding regarding the :
1. Vital aspects of communication and various audio and visual media and their use.
2. New communication technologies and their use.
3. Skills in developing and using different communication technologies for various presentations.

INSTRUCTIONS TO PAPER SETTERS:
Question paper will have four sections. Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question of short answer type covering the whole syllabus. Students will attempt one question from each unit and the compulsory question. All questions may carry equal marks, unless specified.

UNIT-I
1. Concept of communication. Scope of communication, communication process, approaches to communication.
2. Different media, their characteristics, and use.

UNIT-II
3. Introduction to new communication technologies.
   - Satellite distribution and broadcast networking.
   - Developing close circuit television package on relevant topics.
4. Presentation techniques:
   - Development and use of transparencies.
   - Use of video films.
   - Computer graphic designing.

UNIT-III

5. Presentation of graphics for research reports/seminars/other presentations.

6. Presentations using power points.

UNIT-IV

7. Designing – Leaflets, pamphlets, booklets, cover pages, and posters.

References:

COURSE NO. 112 : GARMENT CONSTRUCTION-II (Pr.)

Total Marks : 100
Paper : 80
Int. Ass. : 20

Credit : 4 Hrs

Objectives:
To impart skills in
1. pattern development
2. construction techniques

INSTRUCTIONS TO PAPER SETTERS:
The paper should be of four hours and the paper should be balanced and cover the entire syllabus

Pattern Development and Construction of the following:
1. Trousers
2. Jacket
3. Formal Ethnic wear
4. Evening gown

References:
2. Metric Pattern Cutting by Wini Fred Aldrich- New Delhi, Om Service.
COURSE NO. 113 : ENTREPRENEURSHIP

Total Marks : 50
Paper : 40
Int. Ass. : 10

Credit: 2 Hrs

Objectives :
To acquaint the students about
1. Entrepreneurship
2. Quality control, labelling and packaging

INSTRUCTIONS TO PAPER SETTERS :
Question paper will have four sections. Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question of short answer type covering the whole syllabus. Students will attempt one question from each unit and the compulsory question. All questions may carry equal marks, unless specified.

UNIT-I

1. Introduction to entrepreneurship and development.
2. Definition and role of entrepreneurship as creator, innovator and manager.
3. Case study of Boutique owner.
4. Entrepreneurial motivation and competencies.

UNIT-II

1. Small Enterprises: Rationale and objectives, Problems of small enterprises in India.
UNIT-III


2. Project design, need for network analysis (Techniques of PERT and CPM).

UNIT-IV

1. Project appraisal, significance.

2. Social cost benefit analysis.

3. Institutions assisting entrepreneurs.

4. Women entrepreneurs and role of women entrepreneurs.

References:

1. Entrepreneurship Development in India by Dr. C. B. Gupta & Dr. N. P. Srinivasan, New Delhi, Sultan Chand, 2004.


THIRD SEMESTER

COURSE NO : 114-PRODUCT DEVELOPMENT (Pr)

Teaching Period: 2 Hrs/week.

Total Marks : 50
Paper : 40
Int. Ass. : 10

Objectives:
To be able to
- understand target customer, market trends and forecast.
- identify the product to be developed.
- understand the process of design development.
- learn the process of product development and the presentation.

Contents
- To develop a product by taking an industry oriented or final consumer oriented problem by the following steps:
  - Research
    - Target Customer
    - Market trends
    - Forecast
  - Design Development
    - Theme selection
    - Design process- inspiration, mood board, and story board.
- Sourcing
- Product Development
- Photoshoot of product with appropriate background and props.
- Showcasing/ Presentation

Note: No question paper shall be set.
Showcasing/ Presentation of the final product will be evaluated by an external examiner.
COURSE NO: 115-TEXTILE CHEMISTRY (Th.)

Teaching Period: 3 Hrs/week

Objectives:
To understand
- the chemistry of textile fibers.
- softening of water.
- bleaching of textiles.
- theory of dyeing.
- textile Finishes.

Instructions to Paper Setters
Question paper will have four sections. Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question of short answer type covering the whole syllabus. Students will attempt one question from each unit and the compulsory question. All questions may carry equal marks, unless specified.

UNIT-I

1. a. Polymerisation addition & condensation.
   b. Significance of molecular structure - crystalline & amorphous.
   c. Physical properties of textile fibres.

2. Chemistry of natural fibers - cotton, silk, wool:
   a. Chemical composition.
   b. Structure and groups.
   c. Chemical properties.

3. i. Chemistry of man - made fibers:
   a. Regenerated: Rayon, acetate, rayon, triacetate.
   b. Chemical composition.
   c. Manufacture and properties.

   ii. Synthetics:
       a. Polyesters - terylene.
       b. Polyamide - 6 & 66
       c. Modacrylic - Dynel
       d. Olefine - Polyethylene and polyprolene.

   iii. Chemical composition, manufactures, and properties.
UNIT-II

4. Water types and impurities and methods of softening:
   i. Lime soda process
   ii. Base exchange
   iii. Demineralization

5. Chemistry of soaps and detergents.

6. Bleaching:
   i. Types of bleaches
   ii. Bleaching of cotton, wool and silk.
       Optical whitening.

UNIT-III

1. Dyes:
   i. Theories of dyeing; Classification.
   ii. Application of Direct, Acid, Basic and Azoic dyes on Cotton, wool and silk.

UNIT-IV

8. Finishes:
   i. Chemical finishes: Basic (mercerization) and acid (organdy).
   ii. Resin:
       a. Moth proofing
       b. Bacteriostatic
       c. Antistatic
       d. Water repellant
       e. Water proofing
       f. Absorbent
       g. Fire retardant
       h. Fire proofing


References:

COURSE NO:- 116-TEXTILE CHEMISTRY (Pr)

Teaching Period: 2 Hrs/week

Total Marks : 50
Paper : 40
Int. Ass. : 10

Instructions to Paper Setters.
1. Each practical paper will be of four hours duration.
2. The question paper should be balanced.

PART-A

1. Scouring and bleaching of cotton.
3. Dyeing of cotton with azoic, reactive and acid dyes.
4. Dyeing of silk with direct basic and reactive dyes.
5. Dyeing of wool with acid, basic dyes.
6. Dyeing of nylon with acid dye.
7. Dyeing of cotton, silk and wool with mineral dyes.
8. Extraction and application of any one natural dye using natural source on cotton.

PART-B

REVIEW

1. Fiber identification.
2. Qualitative and quantitative analysis of blends/ mixture.

References:

1. Williams, B.J. Practical textile Chemistry.
2. Trotman, E.R. Bleaching, Dyeing and Chemical Technology of Fiber.

NOTE: Part- B will not be included for the examination.
COURSE NO:- 117- SCIENTIFIC WRITING (Pr.)

Teaching Periods: 2 Hrs/week

Total Marks : 50
Paper : 40
Int. Ass. : 10

Note :
• The external examiner will conduct the viva voce.
• Practical will be based on continuous internal assessment.

Instructions to Paper Setters

Note :
• Each practical paper will be of three hours duration.
• The question paper should cover the entire syllabus.

Objectives:
• To be able to appreciate and understand the importance of writing scientifically.
• To develop competence in writing and abstracting skills.

Contents
1. Scientific writing as means of communication
   Different forms of scientific writing (articles in journals, research notes and reports review articles, monographs, dissertations, bibliographies, book chapters, and articles in other publications).
2. How to formulate outlines
   The reason for preparing outlines as a guide for plan of writing and as a skeleton for the manuscript.
   Kinds of outlines (topic outlines, conceptual outline, sentence outline, combination of topic and sentence outline).
3. Drafting titles, subtitles, tables, and illustrations.
   Tables as systematic means of presenting data in rows and columns and lucid ways of indicating relationships and results.
   Formatting tables.
   Appendices: Use and guidelines.
4. The writing process
   Getting started.
Using outline as a starting device.
Drafting.
Reflecting, rereading (checking organization, checking headings, checking content, checking clarity, checking grammar).
Brevity and precision in writing.
Drafting and re-drafting based on critical evaluation.

5. Parts of dissertation/research report/article
   - Introduction
   - Review of literature
   - Methods
   - Results and discussion
   - Summary and abstract
   - References

6. Writing for grants
   - The question to be addressed
   - Rationale and importance of the question being addressed
   - Empirical and theoretical framework
   - Presenting pilot study/data or background information
   - Research proposal and time frame
   - Specificity of methodology
   - Organization of different phases of study
   - Expected outcome of study and its implications
   - Budgeting
   - Available infra-structure and resources
   - Executive summary

References:

Continuous Internal Assessment is based as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal examination</td>
<td>5</td>
</tr>
<tr>
<td>File</td>
<td>3</td>
</tr>
<tr>
<td>Attendance</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

I. Weightage of 2 marks for attendance component out of 15 marks for Continuous Assessment shall be available only to those students who attend 75% and more of classroom lectures/seminars/workshops. The break-up of marks for attendance component for theory paper shall be as under:

<table>
<thead>
<tr>
<th>Attendance Component</th>
<th>Marks for the theory paper</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) 75% and above upto 85%</td>
<td>1</td>
</tr>
<tr>
<td>b) Above 85%</td>
<td>2</td>
</tr>
</tbody>
</table>

II. Continuous Internal Assessment Awards must be sent to the Controller of Examinations, by name, two weeks before the commencement of the particular examination on the performa obtainable from the examination branch.
COURSE NO:- 118-TEXTILE DESIGNING (Th.)

Teaching periods : 02Hrs/week.

Total Marks : 50
Paper : 40
Int. Ass. : 10

Objectives :
To impart knowledge about:

• Different types of looms and their working.
• Different types of weaves.
• Knitting and its analysis.

Instructions to Paper Setters
Question paper will have four sections. Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question of short answer type covering the whole syllabus. Students will attempt one question from each unit and the compulsory question. All questions may carry equal marks, unless specified

UNIT-I

1. Kinds of looms
2. Working of various shuttle and shuttleless looms with their parts.

UNIT-II

4. Drafts and lifting plans constructions:
   Development of weaves from elementary bases.
   a) Plain weave derivatives
   b) Weaves constructed on twill bases.
   c) Satin or sateen bases.

UNIT-III

5. Simple colour and weave effects.
   b) Drafting for Dobby
UNIT-IV

7. a) Working of a Jacquard loom
   b) Harness mounting
   c) Cross border Jacquards.
   d) Drafting for the Jacquards.

8. Classification of Knitting.

9. Control of design elements
   a. Yarn calculation for warp and weft knits.
   b. Analysis and testing of knitted samples.
COURSE NO:- 119-TEXTILE DESIGNING (Pr.)

Teaching periods- 3Hrs/week

Total Marks : 75
Paper : 60
Int. Ass. : 15

Instructions to Paper Setters

• The paper should be of four hours.
• The question paper should be balanced.

UNIT- I

1. Weaving
   a. Setting up of a simple loom.
   b. Making of samples of different weaves (plains, rib, twill structure)
   c. Identification of weaves and their graphical representation.

UNIT- II

2. Making of sample of other constructional techniques like Madame, Tatting, crocheting.

UNIT-III

3. Knitting
   a. Setting the machine for basic knitting (Flat Knit).
   b. Control of design elements.
   c. Yarn calculations for weft and warp knits.
   d. Preparation of knitting samples:- Single jersey, rib, purl, interlock, float and tuck stitches.
   e. Analysis and testing of knitted samples.

UNIT- IV

4. Techniques of Designing:
   a. Transfer printing technique.
   b. Batik Printing
   c. Developing innovative techniques in hand painting (colour blending)
5. Developing a product using any of the above techniques.

6. Visit to a textile designing and Printing units.

References:

1. Spencer, D.J. Knitting Technology.
2. Ambary, T.B. Knitted Clothing.
4. Raz, S. Flat Knitting.
6. Murphy, W.S. Textile Weaving and Design.
7. Murphy, W.S. Handbook of Weaving.
Course No: 120 : DISSESSATION

Teaching periods: 2 Hrs/week Paper : 100

Objective :
To understand an independent piece of research work in a relevant area of Clothing and Textiles.

Note :

1. The research work should contribute to the advancement of knowledge in the field. The students must be guided and supervised by a member of the teaching faculty of the department. Each student must submit a written dissertation at the end of the 4th semester of M.Sc. Dissertation should include introduction, methodology, results, discussion, summary, conclusions, and references.

2. Marks will be awarded at the end of the 4th semester, after the submission and evaluation of the dissertation through a viva voce examination for assessment. The external and internal examiners will jointly evaluate the dissertation.
COURSE NO :-121-DRAPING (Pr.)

Teaching periods :  2 Hrs/week

TotalMarks   :  50
Paper        :  40
Int. Ass.     :  10

Instructions to Paper Setters

• The paper should be of four hours.
• The question paper should be balanced.

UNIT-I

1. Draping of basic bodice block- Front and Back.
2. Draping of basic skirt block- Front and Back

UNIT-II

3. Draping and style reading of top Bodices- Princess line and Cowl.

UNIT-III


References :

FOURTH SEMESTER

Course No: 120 : DISSERTATION (IN CONTINUATION FROM SEMESTER III)

Teaching periods: 2 Hrs/week                              Paper : 100

Objective :
To understand an independent piece of research works in a relevant area of Clothing and Textiles.

Note :
1. The research work should contribute to the advancement of knowledge in the field. The students must be guided and supervised by a member of the teaching faculty of the department. Each student must submit a written dissertation at the end of the 4th semester of M.Sc. Dissertation should include introduction, methodology, results, discussion, summary, conclusions, and references.

2. Marks will be awarded at the end of the 4th semester, after the submission and evaluation of the dissertation through a viva voce examination for assessment. The external and internal examiners will jointly evaluate the dissertation.
COURSE NO:- 122-CAD II (Pr.)

Teaching periods: 4 Hrs/week

<table>
<thead>
<tr>
<th>Total Marks</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper</td>
<td>80</td>
</tr>
<tr>
<td>Int. Ass.</td>
<td>20</td>
</tr>
</tbody>
</table>

**Instructions to Paper Setters**
The paper should be of four hours.
The question paper should balanced.

I **TUKA CAD.**

a. Study in detail the different tools of Tuka Tech.

b. Shifting of darts to different positions, making them into straight, square, curved and asymmetric darts.

c. Making various shaped necklines and collars like Peterpen, Baby sailor and Mandarin.

d. Creating pattern for different kinds of sleeves plain, Pull, Cap, Bell, Umbrella Leg-O-mutton, Bishop, Magyar & Raglan.

e. Sloper development for bodice block with basic sleeve block, trouser, skirts & one piece dress.

f. Grade Basic bodice, sleeve & skirt to 5 different sizes.

g. Basic principles of marker making on computer (cutting and layout).

II **TUKA STUDIO**

1. Study in detail the different tools of Tuka Studio:

a. Designing of household linens using Tuka studio commands.

b. Create different repeats, colour ways, textures of the above designs.

**References :**

COURSE NO:- 123-PORTFOLIO MAKING

M. Marks : 75
(Internal only)

Teaching periods: 3Hrs/week

• Purpose and Scope of a Portfolio:
  - What is a Portfolio;
  - Types of Portfolio
  - Purpose: Portfolio for client
  - Portfolio for a prospective job interview

• Portfolio making by using appropriate techniques.

• To make a digital version of portfolio (C.D.)

Note :
  o No question paper shall be set.
  o The marks will be awarded at the end of the semester.
  o The marks will be awarded by the Internal Examiner only
COURSE NO:-124-FASHION MERCHANDISING (Th.)

Teaching periods : 3 Hrs/week

Objectives :

To understand :

• Fashion merchandising.
• Fashion marketing.
• Fashion retailing.
• Visual merchandising.

Instructions to Paper Setters

Question paper will have four sections. Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question of short answer type covering the whole syllabus. Students will attempt one question from each unit and the compulsory question. All questions may carry equal marks, unless specified.

UNIT-I

I Terms & Terminology


II Fashion Merchandising

- Step in Fashion Merchandising:
  • Planning
  • Buying/ Procuring
  • Promoting/selling

- Requirements of Fashion Merchandiser.

UNIT-II

III Marketing of Fashion

- Marketing Concept
- Market Segmentation
- Channels of distribution
- Tinning of product development & Showings

IV  **Fashion Retail**
- History & Development of Fashion Retailing
- Retail Stores
  - Specialty Stores.
  - Discount Stores
  - Leased department Store
  - Factory Outlets
  - General Stores
  - Departmental Stores
  - Chain Stores
  - Mail Order Houses
- Trends in Fashion Retailing

UNIT-III

V  **Visual Merchandising**
- Store planning & Design
- Types of display
  - Window Display
  - Interior Display
- Elements of Visual Merchandising
  - The Merchandise
  - Mannequins & Forms
  - Props
  - Fixtures
  - Lighting
  - Signage
UNIT-IV

VI  Fashion Promotion
    - Fashion Advertising
    - Personnel Selling
    - Publicity
    - Fashion Stores

VII  A case study of any brand/ store.

References:

1. Goworek  “Helen Fashion Buying”.
2. Stone,E.  “Fashion Buying & Merchandising”.

Published by : Professor A.K. Bhandari, Registrar, Panjab University, Chandigarh.