<table>
<thead>
<tr>
<th>Theory Paper Code</th>
<th>Paper Title</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Pds/Week</td>
<td>Marks University Examination</td>
</tr>
<tr>
<td>BM-I</td>
<td>Business Management-I (Th.)</td>
<td>3</td>
<td>40</td>
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<tr>
<td>RM in F&amp;LST- I</td>
<td>Research Methodology in Fashion &amp; Life Style Technology – I (Th.)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>ST in F&amp;LST- I</td>
<td>Statistical Techniques in Fashion &amp; Life Style Technology- I (Th.)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>TT (Th.))</td>
<td>Textile Testing (Th.)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Textile Testing (Pr.)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>CAD Fashion Studio - I (Pr.)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>*Apparel Core (kids wear) (Pr.)</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>• Design Development</td>
<td>5</td>
<td>15</td>
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<td></td>
<td>• Pattern Development</td>
<td>5</td>
<td>20</td>
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<tr>
<td></td>
<td>• Product Development</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Craft Survey &amp; Documentation (Pr.)</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>DS- I</td>
<td>Dissertation Seminar – I</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Orientation to Writing a Synopsis and Submission of Synopsis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grand Total: 650 Marks</td>
<td></td>
<td>14</td>
<td>160</td>
</tr>
<tr>
<td>LSM VII</td>
<td>Lifestyle Management VII/ Tutorial</td>
<td>1</td>
<td>Internally assessed (graded)</td>
</tr>
</tbody>
</table>

For Apparel Core Students will work on 3 projects under their team of mentors who will also mark their work.

All the projects will be show cased before a jury for final assessment. (Refer to subject syllabus for details).

Experts from Fashion & Lifestyle Industry/ Institutes and related fields will be invited as guest faculty to deliver lectures and conduct workshops where ever needed. (For e.g. Apparel costing, Forecast & Range development)
<table>
<thead>
<tr>
<th>Theory Paper Code</th>
<th>Paper Title</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM-II</td>
<td>Fashion Business Management– II (Th.)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>RM in F&amp;LST-II</td>
<td>Research Methodology in Fashion &amp; Life Style Technology - II</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>ST in F&amp;LST-II</td>
<td>Statistical Techniques in Fashion &amp; Life Style Technology- II</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>TC (Th.)</td>
<td>Textile Chemistry (Th.)</td>
<td>3</td>
<td>40</td>
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<tr>
<td></td>
<td>Textile Chemistry (Pr.)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>CAD Fashion Studio - II (Pr.)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>*Apparel Core (Women’s wear) (Pr.)</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>• Design Development</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>• Pattern Development</td>
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<td></td>
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<td></td>
<td>• Product Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS-II</td>
<td>Dissertation Seminar – II Development of Research Tools, Selection of Sample, Research Design and Data Collection</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Students opting for Craft Based Project will do the above with respect to the Craft Product they propose to develop in Semester IV.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grand Total: 600 Marks</td>
<td></td>
<td>14</td>
<td>160</td>
</tr>
<tr>
<td>LSM VIII</td>
<td>Lifestyle Management VIII/Tutorial</td>
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<td>Internally assessed (graded)</td>
</tr>
</tbody>
</table>

For Apparel Core Students will work on 3 projects under their team of mentors who will also mark their work. All the projects will be show cased before a jury for final assessment. (Refer to subject syllabus for details).

Experts from Fashion & Lifestyle Industry/ Institutes and related fields will be invited as guest faculty to deliver Lectures and conduct workshops where ever needed. (E.g. Visual Merchandising)
<table>
<thead>
<tr>
<th>Theory Paper Code</th>
<th>Theory Paper Title</th>
<th>Theory</th>
<th>Practical</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Pds/Week</td>
<td>Marks University Examination</td>
</tr>
<tr>
<td>IM</td>
<td>Industrial Management (Th.)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>QM</td>
<td>Quality Management (Th.)</td>
<td>3</td>
<td>40</td>
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<tr>
<td></td>
<td>CAD Fashion Studio III (Pr.)</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>*Apparel Core (Men’s Wear) (Pr.)</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>• Design Development</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>• Pattern Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Product Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Students opting for Craft Based Project will do the above with respect to the Craft Product they propose to develop in Semester IV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS- III</td>
<td>Dissertation Seminar – III</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Orientation and Operational Working of SPSS Software Scoring and Analysis of Data.</td>
<td></td>
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<td></td>
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<tr>
<td>Grand Total</td>
<td></td>
<td>9</td>
<td>80</td>
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<tr>
<td>LSM IX</td>
<td>Lifestyle Management IX/Tutorial</td>
<td>1</td>
<td>Internally assessed (graded)</td>
</tr>
</tbody>
</table>

- **In this semester Students will be given a choice to opt for a Dissertation or a Craft Based Project.**
- For Apparel Core Students will work on 5 projects under their team of mentors who will also mark their work; all the projects will be show cased before a jury for final assessment. Refer to subject syllabus for details.
- Experts from Fashion & Lifestyle Industry/ Institute and related fields will be invited as guest faculty to deliver lectures and conduct workshops where ever needed.
<table>
<thead>
<tr>
<th>Theory Paper Code</th>
<th>Paper Title</th>
<th>Theory</th>
<th>Practical</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Pds /Week</td>
<td>Marks University Examination</td>
</tr>
<tr>
<td>ED</td>
<td>Entrepreneurship Development (Th.)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Patterning for Structured Clothing [Pr.]</td>
<td>6</td>
<td>20</td>
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<tr>
<td></td>
<td>Port Folio Development (Pr.)</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td><strong>Dissertation Seminar – IV</strong></td>
<td>3</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Report Writing and Submission of Dissertation and Preparation of at least One Research Paper for Publication.</td>
<td>18</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td><strong>Submission of Research Work</strong></td>
<td>24</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>(This will include submission of Dissertation and Viva)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OR Exibition of Craft Based Product Prototypes. (Pr.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>For Craft Based Project: Brief Reporting of the Process of Development of Products through a Seminar</td>
<td></td>
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<tr>
<td></td>
<td><strong>Grand Total : 500 Marks</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LSM VIII</td>
<td>Lifestyle Management X/Tutorial</td>
<td>1</td>
<td>Internally assessed (graded)</td>
</tr>
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</table>

**Total Marks for M Sc Fashion & Lifestyle Technology: 2200 Marks**

- Based on the option chosen students will **EITHER** submit the Dissertation and Present their work in a Seminar before an External Examiner

- OR

- They will give a Report Presentation in a Seminar at an Exhibition Event of Prototypes Developed by them. This will be assessed by an External Jury.

- **Degree in M.Sc. will be awarded to the student only after completion and presentation of the Dissertation /Craft Based Project.**
M.Sc. (Fashion and Lifestyle Technology) SEMESTER –I
Fashion Business Management-I (THEORY)

Theory: 3 pds/week   Total Marks 50
Time for Paper: 3 Hours   Int Marks 10, Exam: 40

Objectives
• Understating fashion management business practices.
• Developing readiness to enter the middle management of any growing organisation.

Instruction to the Examiners:
• 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.
• Student will attempt one question from each unit and the compulsory question.
• All questions will carry equal marks.

UNIT - I
Definition of Management, Four functions of management, Hierarchy of Management, Organisational Structure, Planning Production Floor Arrangement, Principles and Practices of Management, Business Environment; Sustainable strategy- from planning to implementation, Legal and Ethical Aspects of Business.
Case study of one Indian and one International Fashion Organisation.

UNIT-II
Human Resource Management; Role and Responsibility of each department in the organisation setup - Sourcing, Design, Pattern Making, Production, Packaging Departments.
Understanding Tech Pack; Fashion buying-Dealing with buyers, Documentation of Order Taking and Disbursing.

UNIT-III
Role and importance of the Finance Department, International Finance - finance, funding and legislative frameworks for success; Meaning and definition of a Start-Up, Venture Capital and Equity. Costing of a Garment, Mark ups, buying and selling price, turnover, gross sales, profits.

UNIT-IV
Product & Brand Management, Labels, Import and Export procedures and documentation thereof.

Books Recommended:
Essential Reading:
2) Principles and Practices of Management 2014 by Rajesh Kumar Shukla, Somesh Kumar Shukla and Akanksha Shukla
3) Philip Kotler, Principles of Marketing, Printice Hall of India, New Delhi, 2004
J.Jayasankar, Marketing, Margham Publication, Chennai

Journals
1. Business India

M.Sc. SEMESTER –I
Research Methodology in Fashion & Lifestyle Technology – I (Th.)

Theory: 3 Pds./Week   Total Marks: 50
                          External=40
                          Internal=10

Objectives:
• To understand the frameworks for scientific inquiry, research terms, concepts and techniques.
• To understand the various methods of conducting research.
• To appreciate the benefits of applied research.
Instructions to the Examiners:
• Question paper will have four sections.
• Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question (Question No. – 1) of short answer type covering the whole syllabus.
• Student will attempt one question from each unit and the compulsory question.
• All questions will carry equal marks.

UNIT - I
• Areas of Research in Fashion Technology, Selection of Research Problem, Identification and Statement of Research Problem, Survey of Related Literature and Sources.

UNIT – II
• Variable: Meaning and Nature of variable. Types of Research Variables. Important considerations in selection of variables in Fashion Technology.
• Hypothesis: Meaning, Importance, Types and Formulation of Hypothesis. Testing of Hypothesis. Type-I and Type –II Errors.

UNIT – III

UNIT – IV
• Research Proposal: need, importance and Steps to prepare a research proposal.
• Role of Computer and Its application in fashion oriented research.

1. Books Recommended:

M.Sc. SEMESTER –I
Statistical Techniques in Fashion & Lifestyle Technology - I (Th.)

Theory: 3 Pds./Week

Objectives:
• To understand the role of statistic in research.
• To apply the knowledge of statistics in the analysis of data.
• To learn the presentation and interpretation of statistical data.

Instructions to the Examiners:
• Question paper will have four sections.
• Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question (Question No. - 1) of short answer type covering the whole syllabus.
• Student will attend one question from each unit and the compulsory question.
• All questions will carry equal marks.

UNIT – I
• Meaning and Importance of Statistics. Measures of Central Tendency: Mean, Median, Mode for Ungrouped and Grouped Data.
• Graphic Representation of Data: Histogram, Frequency Polygon, Cumulative Frequency Polygon,

UNIT – II
• Dispersion: Mean Deviation, Standard Deviation.
• Time Series: Time Series Analysis - Concept and components, Determination of trend (Linear, Quadratic and Exponential) and seasonal indices.
UNIT – III
• Co-relation: Product Movement Correlation, Spearman’s Rank Difference Correlation. Coefficient of Correlation and Its Interpretation, Perfect Positive and Negative Correlation.
• Regression equations and prediction: Meaning and Concept of linear regression equation.

UNIT – IV
• Chi-Square Test: Application and Uses of Chi - Square Test, Test of Goodness of Fit.
• T-test for: one group, unpaired (independent) data, paired (related) data, difference in means.

Books Recommended:

Essential Reading:

Further Reading:
8. Guptha, S.P. Statistical Methods, 1972, Sultan Chand and Sons,
11. Amitage, P. Statistical Methods in Medical Research Block Well Scientific Publications, 1971, Oxfordand Edinburge,

TEXTILE TESTING (THEORY)
Objectives:
• To enable the students understand the relationship between fiber and yarn properties and fabric quality.

Theory : 3 Pds./ Week Total Marks: 50
Time for Paper: 3 Hrs. Int. 10, Exam 40

Instructions to the Examiners:
• 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.
• Student will attend one question from each unit and the compulsory question.
• All questions will carry equal marks.

Unit – I
• Sampling and Sample Size; Statistical Analysis
• FIBER: Fiber Properties, fiber length, length distribution, fiber maturity, fiber fineness, density and specific gravity, elasticity, elongation, tenacity, stiffness and resilience, thermal, electrical and optical properties.

Unit – II
• YARN: Yarn count, yarn diameter, yarn twist.
• Metallic yarn and high performance yarn.

Unit – III

Unit – IV
• Characteristics and advantages of woven, knits and non woven fabrics; methods of production of non woven; care of fabrics.
Books Recommended:

Essential Reading:

Further Reading:

TEXTILE TESTING (PRACTICAL)

Objectives:
- To enable students to measure and appreciate the importance of fiber and yarn properties and their effect on fabric behavior.

Practical: 3 Pds/Week Time for Paper: 3 Hrs. Total Marks: 50
Instructions to the Examiners:
1. The examiner will set questions covering the entire syllabus.
2. There will be a viva-voce of 5 marks.

Measurement of the following properties of yarns and fabrics:
- Fiber and Yarn: Fiber length distribution, twist (yarn), lea strength (yarn), crimp in yarn.
- Fabric: Thickness, crease recovery, drapability, stiffness, bursting and tearing strength, pilling, abrasion resistance, flammability, moisture content, moisture regain in relation to temperature and relative humidity.

Books Recommended:

Essential Reading:

Further Reading:

CAD FASHION STUDIO – I (PRACTICAL)

Objectives:
- To familiarize the student with the new software and tools.

Practical: 4 Pds./Week Time for Paper: 4 Hrs. Total Marks: 50
Instructions to the Examiner:
Examiner will set the questions covering the whole syllabus.

Examiner will set the questions covering the whole syllabus.
Reach Fashion Studio Fashion Software.

- Detailed Study of all the tools of Reach Fashion Studio.
- Application of these tools of Reach Fashion Studio.
- Application of these tools in Garment Design and Details (kid’s wear).
- Formation of different themes for Layout Pages.
- Applications of kids wear range on Reach Fashion Studio in a Portfolio.


APPAREL CORE (KIDS WEAR) – PRACTICAL

Objectives:

- To enable the students to apply the knowledge of Design Process in making a collection

Practical: 4 Weeks Per Project
(18 Pds./Week) Total Marks: 250
Total Projects 3 Int. Exam: 200, Int. Asst.: 50

Instructions to Faculty:

- The teaching faculty will mark the 3 projects attempted by the students out of 200 marks.
- Stages IV, V, VI and VII will be judged by a jury of at least three faculty members from the institute itself.

Attempt three projects from the below mentioned four projects for kid’s wear collection. Each project will be allotted 4 weeks. Each student will be allotted to a faculty member who will work as a guide/mentor in making the design collection.

Sr. No 1 is compulsory. Choice of any two out of Sr. Nos. 2,3 & 4 to be attempted.
1. Uniform (School)
2. Party Wear
3. Casual Wear
4. Sports Wear

Marks distribution of the project will be as follows:

I. Design Development Int. Exam: 65, Int. Asst.:15
- Research
- Finalization of Theme
- Sourcing
- Finalization of designs (5-7)
- Measurements & Specification Sheets

II. Pattern Development Int. Exam: 65, Int. Asst.:15
- Development of basic blocks( from Measurements of Dress form/chosen model)
- Pattern Making/draping according to the designs
- Muslin Development

III. Product Development Int. Exam: 70, Int. Asst.:20
- Prototype Development on actual fabric

IV. Photo Shoot

V. Project Write up in 1000 words

VI. The Documentation of all the processes in one report to be submitted in the department.

VII. Presentation and Show Casing (Virtual & Real)

Books Recommended:

Essential Reading:
Further Reading:
16. Bina Abling Fashion Illustrations, 2008, Fairchild Publication,

CRAFT SURVEY AND DOCUMENTATION - PRACTICAL

Objectives:
- To expose the students to the crafts and textiles of various states (craft centers) of India for data collection and documentation

Practical: 1 Pd. /Week
Total Marks: 50
Int. Exam: 40, Int. Asst. 10

A visit to any rich textile/ craft cluster for a duration of 10-14 days
Students to be divided into equal groups and accompanied by two faculty members (mentors)
Survey and documentation of the selected craft situation as it exists and how it has evolved. Students to visit the chosen craft area and to study

- The textile craft and handicrafts of the area in detail
- The technicalities as well as the present status of the craft
- Role of designer to uplift the craft
- Study the consumer choice, the marketing channels and outlet
- They will make a detailed documentation of the implements, materials and process used etc.
- Submission of the document and oral presentation and display.

M.Sc. SEMESTER-I

COURSE CODE: DIS-I
COURSE TITLE: Dissertation Seminar - I
(Orientation to Writing a Synopsis and Submission of Synopsis)

Pds /Week =2

COURSE OBJECTIVES
- Orient students to the process of research.
- Enable them to identify a problem for undertaking the research project
- Enable them to prepare a synopsis on which they will submit a research proposal in Semester-I

COURSE REQUIREMENT
- A research problem will be taken up by each candidate under the supervision of a guide allotted to him/her by the Academic Committee of the department.
- The candidate will follow steps of preparing a synopsis and report to his/her guide for its finalization. Under the supervision of the guide he/she will undertake all the steps of writing research proposal to finalize and submit the research synopsis.
- The students will submit the research synopses in the month of November.

M.Sc.( Fashion and Lifestyle Technology) SEMESTER-II
Fashion Business Management-II (THEORY)

Theory: 3 pds./week
Time for Paper: 3 Hours

Total Marks 50
Int Marks 10, Exam: 40
Objectives:
Developing a pool of managerial talent in the field of fashion marketing, merchandising and retailing suited to the requirements of the fashion retail sectors and exports.

Instruction to the Examiners:
• 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.
• Student will attempt one question from each unit and the compulsory question.
• All questions will carry equal marks.

UNIT - I

UNIT-II

UNIT- III

UNIT -IV
Management Information System MIS –Role of IT in management, Internet Marketing and e-Business/ e-Commerce, Project management in the form of group project- Definition of project, project plan, Time management (PERT- Project evaluation review technique), Corporate Social Responsibility- Case studies on Green Fashion- Recycling and Sustainability

Books Recommended:
Essential Reading:
2. Philip Kotler, Principles of Marketing, Printice Hall of India, New Delhi, 2004
   J.Jayasankar, Marketing, Margham Publication, Chennai

Journals
1. Economic Times
2. Business India

M.Sc. SEMESTER –II
Research Methodology in Fashion & Lifestyle Technology – II (Th.)

Theory: 3 Pds./Week

<table>
<thead>
<tr>
<th>Total Marks:</th>
<th>50</th>
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<tbody>
<tr>
<td>External</td>
<td>40</td>
</tr>
<tr>
<td>Internal</td>
<td>10</td>
</tr>
</tbody>
</table>

Objectives:
• To understand the frameworks for scientific inquiry, research terms, concepts and techniques.
• To understand the various methods for conducting research
• To appreciate the benefits of applied research

Instructions to the Examiners:
• Question paper will have four sections.
• Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question (Question No. – 1) of short answer type covering the whole syllabus.
• Student will attempt one question from each unit and the compulsory question.
• All questions will carry equal marks.
UNIT – I

• Test Construction in Fashion Studies: Meaning, Types, Characteristics of a Good Test and Steps involved in construction and standardization of a Test.
• Reliability: meaning and types, factors influencing reliability of a test.
• Validity: meaning and types, factors influencing validity of a test.

UNIT – II

• Methods of Research: Historical Method in Fashion Studies - meaning, nature and Steps.
• Descriptive research in Fashion studies : meaning, nature and Steps.
• Experimental Method: Meaning and purpose, Types of Experimental Research: Laboratory Experiment and Field Experiment in Fashion Studies. Outline for an Experimental Research.

UNIT – III

• Tools and techniques of research: Psychological Tests with reference to Fashion Studies: Questionnaire, Rating Scales, observation Interviews, Case Study

UNIT – IV

• Writing of research report: Need and Layout of research report. Precautions of writing a research report.
• Ethical Issues: Ethical treatment of participants, Plagiarism.

Books Recommended:

M.Sc. SEMESTER –II

Statistical Techniques in Fashion & Lifestyle Technology - II (Th.)

Theory: 3 Pds./Week

Total Marks: 50
Exernal=40
Internal=10

Objectives:
• To understand the role of statistic in research.
• To apply the knowledge of statistics in the analysis of data.
• To learn the presentation and interpretation of statistical data.

Instructions to the Examiners:
• Question paper will have four sections.
• Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question (Question No. - 1) of short answer type covering the whole syllabus.
• Student will attend one question from each unit and the compulsory question.
• All questions will carry equal marks.

UNIT – I

• Scales of Measurement: Nominal, Ordinal, Interval and Ratio Scale.

UNIT – II

• Probability and level of significance, concept of discrete and normal probability distribution. Normal Probability Curve: concept, characteristics and its application
• Skewness and Kurtosis: meaning and importance.
UNIT – III

• Index Number: meaning, types-wholesale price index, consumer price index, index of industrial production, uses of index number.
• Index Number: Laspeyer's, Paasche's and Fisher's index numbers, Problems in the construction and Limitations of index numbers.

UNIT – IV

• Analysis of Variance (ANOVA): One way. Assumption Underlying the Analysis of Variance. General Uses and Limitations of ANOVA
• SPSS Software: need and importance in analysis and presentation of data.

Books Recommended:

Essential Reading:

Further Reading:
8. Guptha, S.P. Statistical Methods, 1972, Sultan Chand and Sons,
11. Amitage, P. Statistical Methods in Medical Research Block Well Scientific Publications, 1971.,Oxfordand Edinburge,

TEXTILE CHEMISTRY (THEORY)

Objectives:
To enable the students to understand the chemical structure of textile fibers and the effect of various chemicals on them

Theory: 3 Pds./Week Total Marks: 50
Time for Paper: 3 Hrs. Int. 10, Exam 40

Instructions to the Examiners:
• Question paper will have four sections.
• Examiner will set a total of nine question comprising two question from each unit, and one compulsory question of short answer type covering the whole syllabus.
• Student will attend one question from each unit and the compulsory question.
• All questions will carry equal marks.

Unit – I

• Polymers: types and degrees of polymerisation
• Physical properties of fibers, structure – crystalline and amorphous
• Chemical composition, structure and chemical properties: cotton, wool, silk, rayon, acetate rayon, polynosic, tri acetate, polyester, poly amide – 6 & 66, acrylic, mod acrylic, elastomeric- rubber and spandex, olefin, polypropylene, polyethylene and blends.

Unit – II

• Types of water; Softening of water by various methods
• Soaps and Detergents
• Types of Bleaches; Bleaching of cotton, wool, silk; optical whiteners
Unit – III

- Chemistry of dyes and pigments: dye molecule, general theory of dyeing and printing, role of water, auxiliaries and thickening agents.
- Chemical finishing of Textiles: Handle, Easy-care finish, water-proof, water-repellant and anti-static finishes.

Unit – IV

- Application of dyes and pigments – direct, acid, basic, azoic, disperse, reactive, vat on cotton, wool and silk.

Books Recommended:

Essential Reading:

Further Reading:
4. Shenai, Technology of textile processing, 1984, Sevak Publisher.

TEXTILE CHEMISTRY (PRACTICAL)

Objectives:
To enable the students to understand the chemical structure of textile fibers and the effect of various chemicals on them

Practical: 3 Pds./Week Total Marks: 50
Time for Paper: 3 Hrs. Int. 10, Exam 40

Instructions to the Examiners:
1. The examiner will set questions covering entire syllabus.
2. There will be viva-voce of 5 marks.

- Fiber Identification
- Quantitative and qualitative analysis of 2 different blends and mixtures
- Bleaching and Scouring of cotton
- Dyeing of cotton with direct, reactive.
- Dyeing of Silk with direct, basic and acid colour in different shades.
- Dyeing of Wool with Acid.
- Dyeing of Nylon with acid colour in different shades
- Extraction of vegetable dyes using different plant sources and its application on cotton & silk fabrics.

Books Recommended:

Essential Reading:
1. Moncrief, Man made fibers, 1975, Butter worths.

Further Reading:
4. Shenai, Technology of textile processing, 1984, Sevak Publisher,

CAD FASHION STUDIO-II (PRACTICAL)

Objectives:
To able to develop design using the tools of Reach Fashion Studio.

Theory: 4 Pds/Week Total Marks: 50
Time for Paper: 4 Hrs. Int. 10, Exam 40

Instruction to the Examiners:
The examiner will set the questions covering the whole syllabus.
Reach Fashion Studio Fashion Software

- Detailed Study of all the tools of Reach Fashion Studio.
- Application of these tools in making design collection (women’s wear).
- Formation of different themes for Layout pages.
- Presentation of the above in a portfolio.

Reference: User's manual

APPAREL CORE (WOMEN'S WEAR) (PRACTICAL)

Objectives:
- To enable the students to apply the knowledge of Design Process in making a collection

Practical: 4 Weeks Per Project
(18 Pds/Week)
Total Marks: 250
Total Projects 3
Int. Exam. : 200, Int. Asst.: 50

Instructions to the Faculty:

- The teaching faculty will mark the 3 projects attempted by the students out of 200 marks
- Stages IV, V, VI and VII will be judged by a jury of at least three faculty members from the institute itself.
  Attempt three projects from the below mentioned four projects for women’s wear collection. Each project will be allotted 4 weeks. Each student will be allotted to a faculty member who will work as a guide/mentor in making the design collection.
Sr. No 1 is compulsory. Choice of any two out of Sr. Nos. 2,3 & 4 to be attempted.
  1. Lingrie
  2. Traditional (Regional/ Fusion Wear)
  3. Corporate Wear
  4. Evening Wear

Marks distribution of the project will be as follows:

I. Design Development Int. Exam: 65, Int. Asst. 15
- Research
- Finalization of Theme
- Sourcing
- Finalization of designs (5-7)
- Measurements & Specification Sheets

II. Pattern Development Int. Exam: 65, Int. Asst. 15
- Development of basic blocks (from Measurements of Dress form/chosen model)
- Pattern Making/ draping according to the designs
- Muslin Development

III. Product Development Int. Exam: 70, Int. Asst. 20
- Prototype Development on actual fabric

IV. Photo Shoot

V. Project Write up in 1000 words

VI. The Documentation of all the processes in one report to be submitted in the department

VII. Presentation and Show Casing (Virtual & Real)

Books Recommended:

Essential Reading:

Further Reading:

16. Bina Abling Fashion Illustrations, 2008, Fairchild publication,

**M.Sc. SEMESTER-II**

**COURSE CODE: DIS-II**

**COURSE TITLE: Dissertation Seminar-II**

(Development of Research Tools, Selection of Sample, Research Design and Data Collection)

**Pds /Week =2 Internal Marks =50**

**COURSE REQUIREMENT**

- The students will develop the tool/s for the research work. The tool/s will be standardized by working out the reliability and validity without the insistence on the development of the norms.
- The students will select the sample and formulate the research design and collect data as per the requirements of the research problem.

**M.Sc. SEMESTER - III**

**INDUSTRIAL MANAGEMENT (THEORY)**

**Theory: 6 Pds. /Week**

**Time for Paper: 3 Hrs.**

**Total Marks: 50**

**Internal Assessment: 10**

**External Examination: 40**

**Objectives:**

- To enable the students to understand the textile industry setup and management.

**Instructions to the Examiners:**

- Question paper will have four sections.
- Examiner will set a total of nine questions comprising two questions from each unit, and one compulsory question (Question No. – 1) of short answer type covering the whole syllabus.
- Student will attend one question from each unit and the compulsory question.
- All questions will carry equal marks.

**UNIT-I**

- Textile Industry and Indian Economy
- Clothing consumption in India and factors influencing the consumption
- Principles and Functions of Industrial Management; Structure of Industrial Management

**UNIT-II**

- Production Management – Meaning, Scope, Benefits of good production management, Types of production process, Job batch, Assembly line, Mass production
- Plant layout location of a unit, layout of buildings, production standards, production control techniques, production records

**UNIT-III**

- Marketing and Selling: Sellers and buyers markets, output and income determination in perfect and imperfect markets, budgets and pricing policies, cost element of cost
- Financial management: Project financing and project appraisal.
- Industrial relations: Trade unions, industrial disputes, workers participation in management.

**UNIT-IV**

- Global sourcing and marketing
• Steps involved in import and export of garments; problems in export and import of textile and apparel
• Changing problem in production of apparel and textile

Books Recommended:
Essential Reading:
1. Managing Quality by S.K. Bhardwaj and P.V. Mehta, 2006, New Age Publisher, Delhi
2. Industrial Engineering and Management by T.R. Banga

Further Reading:
4. Industrial Engineering and Management by V.P. Sharma and O.P. Harkut.
5. Marketing Management by Philip Kotler,
6. Principles of Management by Philip Kotler Production Management by Sherlekar
7. Business Organisation by Bhusan

M.Sc. (Fashion and Lifestyle Technology) SEMESTER –III
QUALITY MANAGEMENT (THEORY)

Theory: 3 Pds./Week                                                                 Total Marks: 60
Time for Paper: 3 Hrs.                                                                 Int. 10, Exam 50

Objectives:
• The students would be able to comprehend quality, its parameters and tools used to assure quality.
• They would be equipped to assume responsibilities in Quality Management area.

Instruction to the Examiners:
• 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.
• Student will attempt one question from each unit and the compulsory question.
• All questions will carry equal marks.

UNIT – I
Definition of quality and quality management, Quality Gurus, Importance and Role of quality, Cost of Quality- Cost of conformance and cost of non-conformance, Total Quality Management, Pillars of TQM, Concept of Lean and Six Sigma, Continuous Improvement, Leadership, Supplier Relationship, Quality Expectations of International Buyers, Quality of Indian Apparel in International Market.
Case study: An Indian and an International Apparel organisation adopting TQM and Six Sigma.

UNIT –II

UNIT –III
Seven Tools of Quality: Cause and Effect Diagram, Check Sheet, Control Chart, Flow Chart, Histogram, Pareto Chart, Scatter Diagram.

UNIT – IV
Quality Audit Methodology, Benefits of Third Party Certification, Choice of Certification Body & Route to Certification, Aspects of quality and the role of customers in defining quality, Steps in Quality Function Deployment and Failure Mode Error Analysis
The importance of Quality Management Systems-Sustaining Total Quality Organizations Environment Audit, Carbon Emission and Carbon Credits.

Books Recommended:
Essential Reading:
4. Jacob Solinger, Apparel Manufacturing Handbook, Analysis, Principles and Practice, 1988,
5. Bobbin Blenheim Media Corp.
7. A.J. Chutney, Introduction to Clothing Production, Management

**CAD FASHION STUDIO- III (PRACTICAL)**

**Objectives:**
- To creatively do assignments done in design process via- Reach Fashion Studio.
- To complete and print in a file format.

**Practical:** 4 Pds/Week  
**Total Marks:** 50  
**Time of Paper:** 4 Hrs.  
**Int.10, Ext.40**

**Instruction to the examiners:**
- The examiner will set questions covering the whole syllabus

**Reach Fashion Studio Fashion Software.**
- Detailed Study of all the tools of Reach Fashion Studio.
- Application of these tools in Garment Design and Details for men's wear collection.
- Formation of different Themes for Layout Pages.
- Presentation of the above written in form of colored Printouts in files of menswear.

**Books Recommended:**
User Guide for the software.

**APPAREL CORE (MEN'S WEAR) (PRACTICAL)**

**Objectives:**
- To enable the students to apply the knowledge of Design Process in making a collection

**Practical:** 3 Weeks Per Project  
**Total Marks:** 250  
**Total Projects 3**  
**Int. Exam: 200, Int. Asst.: 50**

**Instructions of the Faculty:**
- The teaching faculty will mark the 3 projects attempted by the students out of 200 marks
- Stages IV, V, VI and VII will be judged by a jury of at least three faculty members from the institute it self.

Attempt three projects from the below mentioned four projects for men's wear collection. Each project will be allotted 4 weeks. Each student will be allotted to a faculty member who will work as a guide/mentor in making the design collection.  
Sr. No 1 is compulsory. Choice of any two out of Sr. No 2, 3 & 4 to be attempted.

1. Active Sports Wear  
2. Formal Wear  
3. Casual Wear  
4. Street Wear

**Marks distribution of the project will be as follows:**

**I. Design Development**  
**Int. Exam: 65, Int. Asst.:15**
- Research
- Finalization of Theme
- Sourcing
- Finalization of designs (5-7)
- Measurements & Specification Sheets
II. Pattern Development

- Development of basic blocks (from Measurements of Dress form/chosen model)
- Pattern Making/draping according to the designs
- Muslin Development

III. Product Development

- Prototype Development on actual fabric

IV. Photo Shoot

V. Project Write up in 1000 words

VI. The Documentation of all the processes in one report to be submitted in the department.

VII. Presentation and Show Casing (Virtual & Real)

Books Recommended:

Essential Reading:

Further Reading:

M.Sc. SEMESTER-III

COURSE CODE: DIS-III
COURSE TITLE: Dissertation Seminar-III
(Orientation and Operational Working of SPSS Software Scoring and Analysis of Data)
Pds /Week =3

COURSE REQUIREMENT
- Orientation and Operational Working of SPSS Software will be given by the experts of the university.
- The students will score and analyse the data manually or with the help of the SPSS Software.

M.Sc. SEMESTER IV

ENTREPRENEURSHIP DEVELOPMENT (THEORY)

Theory: 3 Pds./Week
Time for Paper: 3 Hrs.

Objectives:
To help students understand the setting up of an enterprise and managing the same.
Instructions to the Examiners:
• Question paper will have four sections.
• Examiner will set a total of nine question comprising two question from each unit, and one compulsory question (Question No. – 1) of short answer type covering the whole syllabus.
• Student will attend one question from each unit and the compulsory question.
• All questions will carry equal marks.

UNIT – I
Entrepreneurship: An Overview; Definition of an entrepreneur, characteristics, Entrepreneurship Management and Ownership, Role of an entrepreneur in Industrial development.
Establishing New Venture in Textile and apparel industry: Opportunities for Entrepreneurship.

UNIT – II
Meaning and definition of SSI, Ancillary industry, importance of SSI, Government policies for SSI. Basic criteria for final selection of a business opportunity, Amount of investment, Nature of technology.
Product identification in various fields causes of industrial disputes, Machinery for settlement of disputes, idea of risk management. Marketing Products.

UNIT – III
The Business Plan Development: concept of a Business Plan, need for a Business Plan, Structure of a business plan, critical elements of an effective business plan, preparing a business plan: a) Forecasting Development and Charting an action plan, Identifying the product/service, evaluating the business venture, Market research and feasibility study; Differentiate the feasibility study and the business plan and identify requirements for venture feasibility.
Indian Entrepreneurship and Case Studies: Overview and analysis of successful entrepreneurs in textile and apparel industry.

UNIT – IV
Enterprise Management: Mechanisms of and requirements for growth of a venture, Effective organizational structures, Operational challenges for entrepreneurship, Procedures involved in the management of man, machine, material and methods of production and operation.
Financing Business: Type of capital, importance of financial management in context to small scale industry, sources of debt financing, sources of Equity Financing, financial controls.

Books Recommended:
Essential Reading:
1. Peggy A. Lambing (1999), Entrepreneurship, 2/e Prentice Hall.

Further Reading:
3. Donald E. Vaughn (1997), Financial planning for the entrepreneur, 1/e. Prentice Hall.

M.Sc. Semester IV
Patterning for Structured Clothing (Practical)

Objective of the course:
• To enable students to develop a creative approach to pattern making by draping.
• To construct muslin prototypes of concept based innovative sculptural clothes.

Practical: 6Pds./week

Instructions:
Students will work on research based projects to create innovative garment designs by draping muslin fabric on dress forms.
Each student will drape muslin and create at least 3 Conceptual Designs of an ensemble.

The sculptural designs in muslin will have distinct expressions of curves, folds, knots, twists, lumps, holes and such accentuated features incorporated into it.
Each project will be illustrated with clear diagrams, pictures and photographs showing stages of design development.

References:
4. Draping Basics, Sally M.Di Marco, Fairchild Books

Further Reading:
5. Pattern Magic 1, Tomoko Nakamichi Laurence, King Publishing Ltd
6. Pattern Magic 2, Tomoko Nakamichi, Laurence King Publishing Ltd
7. Pattern Magic 3, Tomoko Nakamichi, Laurence King Publishing Ltd
8. Pattern Magic, Stretch Fabrics, Tomoko Nakamichi, Laurence King Publishing Ltd 2010

PORTFOLIO DEVELOPMENT (PRACTICAL)

Objectives:
- To develop varied of portfolios for different types of audiences

Practical: 3 Pds/Week

Total Marks : 50
Int. Asst : 10, Int. Exam: 40

Instructions to the Faculty:
- The faculty for portfolio development will mark the student’s portfolio out of 40 marks at the end of the session.

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 student’s inclination towards the particular segment of the industry by identifying the target customers, design requirements and pricing. It should ideally comprise of 30-35 sheets keeping the following points in mind.

1. UNIFORM FORMAT: It is important to keep all the sheets of the same size to maintain visual continuity. Sheets should be grouped separately and systematically either horizontally or vertically. This ensures uniformity of presentation. The presentation of the portfolio depends on the contents and also on layouts. (Too much of fragmentation of a single sheet can be distracting) The end result should look very neat and professional befitting UIFT graduates.
2. Statement of design philosophy to clarify attitude towards fashion.
3. Bio-data
4. The portfolio must include:
   - Page of contents
   - Each separate project should include inspiration sheet/story board and colour chart with appropriate swatches.
   - Client profile and indication of the market/country.
   - Give a name/theme to each projects.
   - Flat working drawings, detailed magnification and specification sheets showing technical strength are vitally important. Line planning, fabric indications, fabric consumption, detailed measurement charts etc are all essential. These are to be used in conjunction with croquis.
   - Design development sheets/design journal to show the creative process and/or commercial feasibility.
5. Stylised illustration may be included as a separate segment.
6. There should be inclusion of designs for men, women and children. However natural creative bent of mind should find expression through specific design and market orientation.
7. At least one collection should have a touch of the Indian ethos. This is to be based on innovative fabric combinations, surface texture and ornamentation. It is very important that the designs and embroidery motifs be original.
8. 2 sheets each on craft documentation and internship project is absolutely mandatory. It is very important to show designs applicability for the craft.
9. Any other creative graphic work, photography done, should be included.
10. In addition to this photographs and/or slides of other creative design activities should be included so to exhibit versatility. These may include photographs of prototype development in the case of
term garment, freelance assignments or competitive shows like Air France, Smirnoff, I.W.S etc. Leave space for the final design collection photographs, which would be included later. Any publications in newspapers or magazines may be included in original.

10. The expression of computer application is very important.

Note for References:
- The faculty should keep updating on latest techniques of Portfolio Development through interaction with people, institutions and media.

M.Sc. SEMESTER-IV

COURSE CODE: DIS-IV
COURSE TITLE: Dissertation Seminar-IV
(Report Writing and Submission of Dissertation and Preparation of at least one Research Paper for Publication and Viva Voce of Dissertation)

Pds. /Week =3

- The students will write the research report and submit the Dissertation by the end of March.
- The students will also prepare one Research Paper for Publication.
- The students will prepare for the viva -voce examination of the dissertation, and make a power point presentation of the research work in the department.

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