FACULTY OF SCIENCE

SYLLABUS

FOR

Master of Science in Fashion Designing

(1st to 4th Semester)

Examinations – 2020-21

--:O:--
OUTLINES OF TESTS, SYLLABI AND COURSE OF READING IN THE SUBJECT OF M.Sc. FASHION DESIGNING

SEMESTER – I
1. Apparel Production and Management (APM)
2. Fashion Communication (FAC)
3. Green Fashion and Sustainability (GFS)
4. Advanced Pattern Making – I (APM-I)
5. Construction of Kid’s Wear (CKW)
6. Design Illustration – I (DI-I)
7. Computer Designing – I (CD-I)

SEMESTER – II
1. Retail Marketing & Merchandising (RMM)
2. Knitwear Design Technology (KDT)
3. Advanced Pattern Making – II (APM-II)
4. Construction of Men’s Wear (CMW)
5. Design Illustration – II (DI-II)
6. Computer Designing – II (CD-II)

SEMESTER – III
1. Research Methods (RMS)
2. Statistics (ST)
3. Design Illustration -III (Women Wear) (DI-III)
5. Construction of Women Wear (CWW)
6. Industry Based Project (IBP)

SEMESTER – IV
1. Entrepreneurship Development (ED)
2. Quality Control and Standardization (QCS)
3. Textile Design Development (TDD)
4. Pattern Making through Draping (PMD)
5. Research Project (RP)
### SCHEME OF STUDIES

#### Semester-I

<table>
<thead>
<tr>
<th>Paper/Title</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pds/Week</td>
<td>Marks Univ exam</td>
</tr>
<tr>
<td>Apparel Production and Management (APM)</td>
<td>6</td>
<td>80</td>
</tr>
<tr>
<td>Fashion Communication (FAC)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>Green Fashion and Sustainability (GFS)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>Design Illustration-I (Kids Wear)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Pattern Making (kids wear) - I</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>Garment Construction (kids wear)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Computer Designing-I</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

### SCHEME OF STUDIES

#### Semester-II

<table>
<thead>
<tr>
<th>Paper/Title</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pds/Week</td>
<td>Marks Univ exam</td>
</tr>
<tr>
<td>Retail Marketing Merchandising (RMM)</td>
<td>6</td>
<td>80</td>
</tr>
<tr>
<td>Knitwear Design Technology (KDT)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>Design Illustration-II Men’s Wear</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Advance Pattern Making Men’s Wear (APM)-II</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>Construction of Men’s Wear</td>
<td>6</td>
<td>80</td>
</tr>
<tr>
<td>Computer Designing-II</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
### Semester-III

<table>
<thead>
<tr>
<th>Paper/Title</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pds/Week</td>
<td>Marks Univ exam</td>
</tr>
<tr>
<td>Research Methods (RMS)</td>
<td>4</td>
<td>60</td>
</tr>
<tr>
<td>Statistics (ST)</td>
<td>4</td>
<td>60</td>
</tr>
<tr>
<td>Design Illustration-III (Women’s wear)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Advance Pattern Making (APM)-III (women’s wear)</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>Construction of Women’s Wear</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Industry Based Project</td>
<td>50 internal</td>
<td></td>
</tr>
</tbody>
</table>

### Semester-IV

<table>
<thead>
<tr>
<th>Paper/Title</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pds/Week</td>
<td>Marks Univ exam</td>
</tr>
<tr>
<td>Entrepreneurship Development (ED)</td>
<td>6</td>
<td>80</td>
</tr>
<tr>
<td>Quality Control and Standardization (QCS)</td>
<td>6</td>
<td>80</td>
</tr>
<tr>
<td>Textile Design Development (TDD)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Advance Pattern Through Draping (PMD)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Research Project</td>
<td>50 internal</td>
<td></td>
</tr>
</tbody>
</table>
SEMMESTER – I
1. Apparel Production and Management (APM)
2. Fashion Communication (FAC)
3. Green Fashion and Sustainability (GFS)
4. Advanced Pattern Making – I (APM-I)
5. Construction of Kid’s Wear (CKW)
6. Design Illustration – I (DI-I)
7. Computer Designing – I (CD-I)

APPAREL PRODUCTION AND MANAGEMENT

Theory: 6 Pds/week
Time for Paper: 3Hrs
Total Marks: 100
Int. 20 Exam 80

Objectives
- To impart knowledge of Industrial operations
- To impart awareness about machines and equipments used in apparel industry

Instructions to the Examiner
1. 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.
2. Students will attempt one question from each unit and the compulsory question.
3. All questions may carry equal marks, unless specified

Unit-I
- Introduction to Indian Apparel Industry
- Structure of the Apparel Industry
- Sectors of the Apparel Industry

Unit-II
Organization of an Apparel Industry
The Design Department
- Forecasting
- Designing
- Collection Planning
- Pattern Making
- Production of Sample Garments
- Pattern Grading
The Production Department
a) Operations in cutting room
1. Marker Planning
2. Spreading
3. Cutting
b) Sewing
1. Preparation for sewing, stitches, seams, feed systems, needles, threads, machinery and equipment
2. Assembly

Finishing Department
- Pressing Machinery and equipment
- Finishing, Inspecting, Warehousing and shipping

UNIT-III

Marketing Department
- Marketing – Marketing Calendar
- Product Pricing
- Price Evaluation
- Product Planning
- Customers

Merchandising – Distribution
- Sales – Promotion
  - Market Research
  - Selling
  - Sales Forecasting & Budgeting

UNIT-IV

References:
- Carr Harold and Latham Barbara “The technology of clothing manufacture” Blackwell Publisher (1994-2004)
- Ruth EC “Apparel manufacturing and Sewn Product Analysis”
- Bheda Rajesh, “Managing Productivity in the Apparel Industry” CBS Pub, New Delhi

FASHION COMMUNICATION

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

Objectives:
To enable the students to understand the intricacies of fashion industry

Instructions to the Examiner
1. 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.
2. Students will attempt one question from each unit and the compulsory question.
3. All questions may carry equal marks, unless specified.

Unit-I
- Communication:- Concept, Definition, Scope, functions of communication
- Mass Communication:- Concept, Definition, Scope and functions of Mass Communication through different media – Electronic media, Print media, Cyber media
- Role of media in society.
• Need of Mass Communication in Fashion world.

Unit-II
• Creative writing:- writing a feature, different types of feature, rules for writing feature:- Defining Article, rules for writing.
• Interviews:- Definition, Concept and scope of interviews, types of interview. How to conduct an interview, writing interview.
• Designing catalogues and brochures.

Unit-III
• Photography:- Role of photography in fashion world, concept, definition and functions of photography. Types of camera, camera angles, shots and movements.
• Editing:-Definitions, various techniques of editing.
• Ethics of media.

Unit-IV
• Event management:- fashions shows, photo shoots, outdoor and indoor shoots.
• Advertising:- concept, definition, scope, functions and need of advertising in fashion world.
• Public relations:- concept, definition, scope, functions and qualities of good PRO. Need of PRO in fashion.
• Publicity:- Definition and scope, event reporting, concept of image management.

Reference:
• Kristen K. Swanson, Judith C. Everett., ‘Writing for the Fashion Business’, Fairchild Pub., USA.
• Williams John Matt, ‘Business through Correspondence and Advertising’,
• Ashok Bhalla, ‘Effective Communicationn’, Abhishek Pub.,Chandigarh.
• Ashok Bhalla, ‘Perfect Public Speaking’, Abhishek Pub.,Chandigarh.
• Vaibhav Mehndiratta, ‘Event Management’, Abhishek Pub.,Chandigarh
• 

Green Fashion and Sustainability

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

Objectives
To enable the students to become aware of environmental concerns and ethical and sustainable practices related to fashion.

Instruction to the Examiner
1. Question paper will have four sections.
2. 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.
3. Students will attempt one question from each unit and the compulsory question.
4. All questions may carry equal marks, unless specified.
UNIT-I
- Terminology related to Green Fashion - Eco-friendly fabrics, organic clothing, Ethical Fashion, Recycled fibres, up-cycled fibres, slow fashion, ecosystem, fair trade, greenapsis, green technology.
- Green fashion movements and organisations related to it.

UNIT II
- Different fibers and fabrics used for green clothing.
- Processes employed for production of green clothing.
- Refashioning and recycling of green clothing.

UNIT-III
- Carbon footprints in textile and apparel industry.
- Labelling system related to green fashion and eco labelling
- Awareness of green labelling and its effect on consumers.

UNIT IV
- International Designers and their brands promoting Green Fashion.
- National Designers and their brands promoting Green Fashion.
- Govt. Policies promoting green fashion

References:
-Sustainable fashion and textiles: Design journeys by Kate Fetcher
-Future fashion White Papers by earth pledge.
-Sustainable fashion: New Approaches Kirsi Niinimaki(ed)Aalto university publication series

Design Illustration (Kid’s Wear)
Practical : 6Pds/Week
Time: 3Hrs
Total Marks: 100
Exam: 80Int: 20

Objectives:
To understand croqui drawing of boys and girls 5 to 10 years of age. To learn to drape these figures in various ensembles.

Instructions to Examiner:
The examiner will set questions covering the whole syllabus.

1. Make a Croqui of a 5 to 10 year old boy and girl.
2. Design a collection for boys and girls, 5 to 10 years of age keeping the following ensembles in mind:
   Boys: T-Shirts, Dungarees, Full sleeved reversible jacket.
   Girls: Skirts, Tops, Dress - one piece / two piece.
3. Rendering of notions, Prints and embroidery in the above Garments.
References:

- Patrick John Ireland, 'Fashion Design Illustration: Children', B T Batsford Ltd, London
- Hagen, 'Fashion Illustration for designers'
- Kathryn Mckalvey, 'Illustration Fashion', Black Well Publishing
- Martin Dawber, 'Big book of illustration'
- Parrick John Ireland, 'Fashion Design Drawing and Presentation', Om Books International.
- Bina Abling, 'Fashion Sketchbook', Fairchild Publishers

Pattern Making (Kid's Wear)

Practical 6 Pds/week Time Marks: 100
Time: 3Hrs
Exam: 80 Int: 20

Objectives:
To enable the students to develop skills in pattern making of kids garments of 5 to 10 years old boys and girls.

Instructions to the examiner
The examiner will set questions covering the whole syllabus.
Making patterns for following garments:
Boys:
Girls:
T-Shirts, Dungarees, Full sleeved reversible jacket.
Skirts, Tops, Dress- one piece / two piece.

References

- Doonga Ji Sherie and Deshpande, R, 'Basic Process and Clothing Construction.'
- Winifred Aldrich, 'Metric Pattern Cutting for Children's Wear and Babywear: From Birth to 14 Yrs' Blackwell Science
- Gloria Mortimer-Dunn, 'Pattern Design for Children's clothes', B T Batsford Ltd, London
Garment Construction (Kid’s Wear)

Practical 6 Pds/week Time Marks : 100
Time: 4Hrs Int : 20
Exam: 80

Objectives:
To enable the students to develop skills in construction of kids garments of 5 to 10 years old.

Instructions to the examiner
The examiner will set questions covering the whole syllabus.
Construction of the following garments as a complete ensembles:
Boys: T-Shirts, Dungarees, Full sleeved reversible jacket.
Girls: Skirts, Tops, Dress- one piece / two piece.

References
- Doonga Ji Sherie and Deshpande, R, 'Basic Process and Clothing Construction.
- Mary Abreu,'Little Girls, big Style',C&T Publishing, Inc
- Selvia Rosen,'Children's Clothing: Designing, Selecting Fabrics, Pattern Making & Sewing', Fairchild Books & Visuals
- Nancy J.S.Langdon & Sabine Pollehn,'Sewing clothes Kids love', Creative Publishing International, Inc.

COMPUTER DESIGNING – I

Practical: 3 Pds/week
Time for paper: 3 Hrs
Total Marks: 50
Int. 10 Exam 40

Objectives:
To enable the students to understand the application of Adobe Photoshop and used the same to create various design compositions.

Instruction to the Examiner
The Examiner will set questions covering the whole syllabus

Understanding application of basic tools of Photoshop.
Learning the technique of scanning pictures of celebrities/veterans/models and redefining them in terms of hair styles, dresses, and accessories.
Designing the following for sales promotion:
- Posters and Fliers
- CD covers of fashion shows, music CD’s etc.
- Visiting cards and brochures of designers, professors etc.
- Thematic backgrounds like corporate/ Board meeting room, hotel lounge, teller desk; party hall; beach; classroom; etc.
- User guide for the Software.

M.Sc. Fashion Designing
SEMESTER – II

1. Retail Marketing & Merchandising (RMM)
2. Knitwear Design Technology (KDT)
3. Advanced Pattern Making – II (APM-II)
4. Construction of Men’s Wear (CMW)
5. Design Illustration – II (DI-II)
6. Computer Designing – II (CD-II)

RETAIL MARKETING & MERCHANDISING

Theory : 6 Pds/week
Time for paper: 3 Hrs
Total Marks: 100
Int. 20 Exam 80

Objectives:
- To introduce the concept of Retailing & Marketing
- To impart knowledge regarding the marketing environment and consumer behaviour.

Instruction to the Examiner
1. Question paper will have four sections.
2. 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.
3. Students will attempt one question from each unit and the compulsory question.
4. All questions may carry equal marks, unless specified.

Unit-I
- Introduction to Retailing: types and its formats.
- Merchandising: its definition, types, role and responsibility of merchandiser.
- Organisational structure

Unit-II
- Identification and analysis of consumer.
- Communicating with consumer.
- Relationship between retailer and consumer.
- Business ethics and social responsibility.

Unit-III
- Financial aspects of retail merchandising.
- Retail Pricing.
- Planning sales and inventory.
Unit-IV

- Merchandising control.
- Store Planning and Design.

References:
- John Donnellan, ‘Merchandise Buying and Management’
- Leslie Davis Burns, Nancy O. Bryant, ‘The Business of Fashion’
- Edited by Mike Easey, ‘Fashion Marketing’
- Ellen Diamond, ‘Fashion Retailing’
- Jay Diamond Gerald Pintel, ‘Retail Buying’
- Rasshid Din, ‘New Retail’
- Michael R. Solaman, ‘Consumer Behaviour in Fashion’

KNITWEAR DESIGN TECHNOLOGY

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

Objectives:
- To understand the characteristics of knitted fabrics
- To understand the versatility of knit fabrics for end uses.

Instructions to the Examiner
1. Question paper will have four sections.
2. 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.
3. Students will attempt one question from each unit and the compulsory question.
4. All questions may carry equal marks, unless specified.

Unit-I

Introduction to knitting
- Definition of knitting
- Weft and Warp Knitting
- Comparison of Weft and Warp Knitting
Weft knitted fabrics
- Plain, Knit, Purl, Tuck, Float, Rib, Jacquard.
Warp knitted fabrics
- Tricot, Raschel, Simplex, Milenese.

Unit-II

Knitting needles and it’s types(hand and machine)
Types of different knitting machines(flat, circular and computerised)
Sequence of loop formation on warp and weft knitting machines
Unit-III
Different approaches to construct Knitted garments
- Fully cut
- Stitch shaped cut
- Fully fashioned
- Integral

Unit-IV
Quality Control of knitted fabrics
Garment Quality
Environmental concerns related to knitting industry.

References:
- D.B. Ajaonkar, ‘Knitting Technology’
- David J.Spencer, ‘Knitting Technology’
- Samuel Rag, ‘Flat Knitting Technology’
- Smirfitt, ‘An Introduction to Weft Knitting’

KNITWEAR DESIGN TECHNOLOGY

Practical: 3 Pds/week
Time for paper: 3Hrs
Total Marks: 50
Int. 10 Exam 40

Objectives:
- To impart the knowledge of Knitting
- To develop an understanding of the various knitted structures

Instructions to the Examiner
The Examiner will set questions covering the whole syllabus.

For a knitted sample file develop 20 swatches from basic stitches
(Knit, Purl, Tuck, Miss, Transfer loop)
Develop a garment from a creative swatch
References:
- Sandy Black ‘Knitwear in Fashion’, Thames & Hundson, London, 2005
- Debbie Bliss ‘Cotton Knits for all seasons’
- Zoe Mellor ‘Double Knits’
- The step by step guide to knitting
- The Harmony guide to knitting stitches

DESIGN ILLUSTRATION-II (Men’s Wear)

Practical: 6 Pds/week
Time for Paper : 3 Hrs
Total Marks: 100
**Int. 20 Exam 80**

Objectives:
- To introduce male croqui and various postures.
- To impart skill for development of inspirational designing ability.

Instruction to the Examiner
The Examiner will set questions covering the whole syllabus.

Introduction to male figure, features and postures
Draping male figure in
- Casual wear
- Street wear
- Formal wear
Detailed line planning with emphasis on design development sheets for men.
Making a theme based working drawing collection of five ensembles of men’s wear—formal and casual.
Creation of different textures for men’s wear.

References
- Bina Abling, ‘Illustrating Fashion’
- Seaman ‘Professional Fashion Illustration’ B.T. Batsford Ltd.
- Colussy ‘Rendering Fashion-Fabrics & Paints’

**ADVANCED PATTERN MAKING – II (Men’s Wear)**

**Practical:** 3 Pds/week  
**Time for paper:** 3Hrs  
**Total Marks:** 50

**Int. 10 Exam 40**

Objectives:
- To learn and assemble and stitch the diverse components of men’s garments

Instruction to the Examiner
The Examiner will set questions covering the whole syllabus.
Pattern development of the following garments
- Designer kurta pyjama
- Shirt
- Trouser-Jeans and formal
- Sherwani with aligarhi pyjama
- Jacket- reversible and lined
CONSTRUCTION OF MEN’S WEAR

Practical: 6 Pds/week  
Time for paper: 3Hrs  
Total Marks: 80  
Int. 10 Exam 20

Objectives:  
To enable the students to develop patterns for men’s wear garments.  
To learn to assemble and stitch the diverse components of men’s garments.

Instruction to the Examiner  
The Examiner will set questions covering the whole syllabus.  
Pattern development of the following garments  
- Designer kurta pyjama  
- Shirt  
- Trouser-Jeans and formal  
- Sherwani with aligarhi pyjama  
- Jacket- reversible and lined

References:  
- Bane Allyne, MC Graw Hill USA ‘Flat Pattern Design’.  
- Reader’s Digest Complete Guide to Sewing.  
- Dorothy Wood, ‘The Practical Encyclopaedia of Sewing’.  
- Doongaji Sherie & Deshpande, R, Basic Process and Clothing Construction.
COMPUTER DESIGNING-II

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

Objectives:
To make students acquire skill in computer aided designing.

Instruction to the Examiner
The Examiner will set questions covering the whole syllabus.

- Prepare design illustrations and work sheets of the following garments using the tools of Adobe Photoshop and Corel Draw:
  - Kurta pyjama
  - Shirt
  - Trouser
  - Jacket
  - Sherwani with aligarhi pyjama
  - Coat with lapel collar
Create different textures for above garments.
Drape of created textures in the above garments.
Develop patterns of the following garments using the tools of Lectra/Tuka CAD or any other software for Pattern and Marker Making:
  - Corset
  - Off shoulder one piece garment
  - Trouser – pleated, flat front
  - Ethnic Wear
Get the patterns plotted in actual sizes.

Reference:
- User guide for the software.
- Corel Draw by BPB Publications

SEMESTER – III

1. Research Methods (RMS)
2. Statistics (ST)
3. Design Illustration - III (Women Wear) (DT-III)
5. Construction of Women Wear (CWW)
6. Industry Based Project (IBP)

Research Methods
Theory: 4 Pds./Week Total Marks: 75
Time of Paper: 3 Hrs. Int. 15, Exam 60

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 for 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
- Introduction to Research, Basic research, Primary & Secondary Research, Scientific research, Survey research, Experimental and Quasi-Experimental Research
- Case study research, Observational research, Correlational Research, Descriptive Research, Historical and Philosophical Research, Advantages and disadvantages of each method.

Unit - II
- Development of the problem using literature, Formation of the topic hypothesis, assumptions and limitations of problems, Formulating research questions, Sampling, Types of Sampling, Qualitative Research Sampling, Gathering of data, Analysis of data, Test, Revising of hypothesis Conclusion.
- Presenting the Problem, Formulating the Method of Data Collection by various instruments.

Unit - III
- Data tabulation and analysis, Statistical significance of testing.
- Measuring research variables: Uni, Bi and Multivariate, Relationship between variables.

Unit - IV
- Results and Discussion; Summary and Conclusion; Recommendations.
- Ethical Issues: Ethical treatment of participants, Plagiarism.

Reference
- C.R. Kothari,' Research Methodology - Methods & Techniques', New Age International Publishers
- Jai Narain Sharma,' Research Methodology', Deep & Deep Publications Pvt Ltd
- John Creswell,'Research Design', Sage Publications
STATISTICS
Theory: 4 Pds./Week Total Marks : 75
Time of Paper: 3 Hrs. Int. 15, Exam 60

Objectives:
- To understand the role of statistics 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:
- 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
- Meaning, scope and role of statistics in research
- Classification and tabulation of Data, frequency distribution, categorization of data, coding, tabulation, mean, median mode for ungrouped and grouped data, discrete and continuous data, interval size, mid points, graphing: histogram, frequency polygon, cumulative frequency polygon, measure of central tendency, (absolute and relative skewness and kurtosis)

Unit – II
- Concept of discrete probability distributions, normal distribution, use of normal probability tables.
- Hypothesis Testing, Type I and Type II errors, Sampling Distribution, Large sample testsfor proportion, difference in proportion for means and difference in means.

Unit – III
- T-test for: one group, unpaired (independent) data, paired (related) data, difference in means, one way analysis of variance
- Co-relation, coefficient of correlation and its interpretation, rank correlation, regression equations and predictions, perfect positive and negative correlation

Unit – IV
- Application of chi-square tests, goodness of fit
- Presentation and Interpretation of data, tables, graphs, illustrations

Reference:
- Neiswanger, W.A. Elementary Statistical Methods applied to Business and economic Data. 1956, The Macmillan Company,
- Snedecor, G.W., Statistical Methods, 1961, Applied Parific Private Ltd.,
DESIGN ILLUSTRATION – III

Practical : 6 Pds/Week
Time for paper : 3 Hrs
Total Marks: 100
Int. 20 Exam 80

Objectives:
- To learn to design theme based collection.
- To develop a personal style of illustration and presentation technique.
- To impart skills for portfolio presentations

Instruction to the Examiner
The Examiner will set questions covering the whole syllabus

The below mentioned Design illustrations should be based on Advanced Pattern Making and Construction of Women’s Wear subjects of this semester.
- Design a collection for Women’s Wear on various specified themes.
- Drape these garments on fashion figures in different moods.
- Colour and Texture rendering; swatches and notions; spec sheets
- Define a personal designer style and make a portfolio using designing softwares(coreldraw and adobe photoshop).

References:
- Patrick John Ireland, ‘Fashion Design Drawing & Presentation’ Om Books
- International, New Delhi, 2005
- Seaman ‘Professional Fashion Illustration’ B.T. Batsford Ltd.
- Colussy ‘Rendering Fashion-Fabrics & Paints’
- Hagen, ‘Fashion Illustration for designers’.
- Martin Dawber, ‘Big book of Illustrations’.

ADVANCED PATTERN MAKING – III (Women’s Wear)

Practical : 3 Pds/week
Time for paper : 3Hrs
Total Marks: 50
Int. 10 Exam 40

Objectives:
- To enable the students to develop the patterns through dart manipulation
To enable the students to understand & realize the importance of fitting.

Instructions to the Examiner
The Examiner will set questions covering the whole syllabus.

Pattern Development of the following:
- Halter neck one piece dress
- Off shoulder – single and both
- Choli cut corseted kurti
- One piece fitted dress with gathers in princess line.

Pattern development of at least two fitted garments with fullness added in various dart locations.

References:
- Bane Allyne, ‘Flat Pattern Design’, McGraw Hill USA

CONSTRUCTION OF WOMEN’S WEAR

Practical : 6 Pds/week
Time for Paper : 4 Hrs
Total Marks: 100
Int. 20 Exam 80

Objectives:
To enable the students to develop skills in construction of fitted and stylized dresses.

Instructions to the Examiner
The Examiner will set questions covering the whole syllabus.

Construction of the following fitted garments:
- Halter neck one piece dress
- Off shoulder dress: single and both
- Choli cut corseted Kurti
- One piece fitted dress with gathers in princess line.

Construction of two fitted garments with fullness added in various dart locations.

References:
• Doongaji Sherie & Deshpande, R, ‘Basic Processes and Clothing Construction’.
• Dorothy Wood, ‘The practical Encyclopedia of Sewing’
• Reader’s Digest ‘Complete guide to Sewing’
• Singer, ‘Sewing Book’

INDUSTRY BASED PROJECT
Marks: 100
Int. 50
Ext. (Viva) : 50

1. One month internship with an industry to study its product design and development.
2. Creating a product at the end of internship.

SEMESTER – IV
1. Entrepreneurship Development (ED)
2. Quality Control and Standardization (QCS)
3. Textile Design Development (TDD)
4. Pattern Making through Draping (PMD)
5. Research Project (RP)

ENTREPRENEURSHIP DEVELOPMENT
Time for Paper :3Hrs
Theory: 6 Pds/week
Total Marks: 100
Int:20
Exam: 80

Objectives:
To provide theoretical information to students about the role of entrepreneur in economic development.
To help students understand the process of setting up of a private enterprise and develop required entrepreneurial skills.
To motivate students to opt for entrepreneurship and self-employment as alternate career options.

Instruction to the Examiner
1. There will be 9 questions in all carrying equal marks. Two questions from each unit and one compulsory question covering all the units.
2. Five questions will be attempted in selecting one question from each unit. Question No.1 will be compulsory carrying short answer type questions, filling the blanks or true/false.

Unit – I
1. Entrepreneurship – definition, concept, nature, need and barriers to entrepreneurship.
2. Entrepreneurship and economic development.
Entrepreneurship and self-employment.
Difference between Entrepreneurship and self-employment.
3. Entrepreneurship – advantages, disadvantages and difference between
Entrepreneurship; enterprise; intrapreneurship.

Unit – II
1. Entrepreneur – definition, characteristics, kinds, barriers in growth of Entrepreneur and
secrets of successful Entrepreneur. Role of Entrepreneur in economic development.
2. Motivation – importance, types and developing entrepreneurial motivation model.

Unit – III
1. Project Identification and classification – definition, characteristics, classification,
sources of project ideas and steps in project identification.
2. Product Selection – definition, factors affecting and barriers to successful
development of a new product.
4. Project Plan – Need, steps in writing a project plan, general tips and reasons for failure
of project plan.
5. Project Design and Project Appraisal – scope, various aspects of project appraisal,
SWOT Analysis.

Unit – IV
Institutional support to entrepreneurs – National Small Scale Industry Corporation, National
Research Development Corporation, NHDC- National Handloom Development Corporation, Small
Industries Development Organization, SSIB, Khadi Village and Industries Commission and
DIC.
Institutional Finance to Entrepreneurs - IDBI, IFCI, IIBI, ICICI, Small Industries
Development
Bank of India (SIDBI), Export-Import Bank of India, SIDCS, Commercial Banks and SMEs.

References:
- Gupta CB and Srinivasan P, "Entrepreneurship Development", Sultan Chand and
  sons, New Delhi
- Yadav CP, "Encyclopaedia of Entrepreneurship", Anmol Publications, New Delhi
- Kumar Anil S, Poornima S C, Abraham Mini K, Jayashree K, "Entrepreneurship
  Development", New Age International Publishers, New Delhi
- Kirandeep Kaur and Sumedha Gupta, "Entrepreneurship Development”, Kalyani
  Publications.
- Kirandeep Kaur and Sumedha Gupta, "Entrepreneurship in Small Scale Business",
  Kalyani Publications.

QUALITY CONTROL AND STANDARDIZATION
Time for Paper: 3Hrs
Theory: 6 Pds/week
Total Marks: 100
Objectives:
To educate students about the need and importance of quality control and standardization in Apparel industry.
To provide theoretical information to students about the various quality standards of the Apparel Industry.
To familiarize students about the various National and International standards and organizations that formulate them.

Instructions for Examiner:
1. There will be 9 questions in all carrying equal marks. Two questions from each unit and one compulsory question covering all the units.
2. Five questions will be attempted in all selecting one question from each unit. Question No.1 will be compulsory carrying short answer type questions, filling the blanks or true/false.

Unit – I
1. Quality: Definition, Importance, Quality system, Quality registration system, seven tools of quality.
2. Quality Control Through Inspection: Definition, Inspection Methods, Sampling Methods, Selection of Inspectors.

Unit – II
1. Managing Quality – Introduction, Precision and Accuracy of methods.

Unit – III
1. Care labeling of Apparel and Textile: American Care Labeling, ISO care symbols, Japanese care symbols, Clothing and Hazards, Quality Costs.

Unit – IV
1. Standards: Introduction, Benefits, Level of Standards, Sources of Standards, EOTC.

References:
- Dale H. Besterfield,”Quality Control” Prentice Hall
- Pradip V. Mehta and Satish K Bhardwaj, “Managing Quality in the Apparel Industry.”
- Dr. Inderpal Rai,” Textile Industry Problem and Prospects in the 21st Century.”
TEXTILE DESIGN DEVELOPMENT

Time for Paper : 3Hrs
Practical: 6 Pds/week
Total Marks: 100
Int: 20
Exam: 80

Objectives:
To make students understand and apply the knowledge of textile design development.

Instructions of Examiner:
The Examiner will set questions covering the whole syllabus.

1. Sourcing of design from nature, religion and methodology, arts & craft, architecture, historical textiles & cave paintings and creating a collection for contemporary use.
2. Development of the above designs in various geometrical, simplified, stylized, abstract forms.
3. Enlarging and reducing their sizes.
4. Application of different color ways to the above.
5. Combining of motifs, placement and repeats for bed linen, curtains, yardage, engineered prints and sarees.
7. Product development in collaboration with industry using any technique.


PATTERN MAKING THROUGH DRAPING

Time for Paper : 3Hrs
Practical: 6 Pds/week Int: 20
Exam: 80

Objectives:
To make the students understand draping methods of designer dresses.

Instruction to the Examiner:
The Examiner will set question covering the whole syllabus.

1. Basic princess line jacket with sleeves and lapel collar.
2. Sculpted dress.
3. Corset dress.
4. Trousers – Flat front, pleated.
5. Cowls – Front deep cowl, back deep cowl, armhole cowl, halter cowl, sleeve cowl (knitted fabric should be used for cowl designs).
Construct any one of the above draped garments for class assessment.

References
• Wrap and Drape Fashion-History, Design and Drawing Elisabetla ‘Kuky’ Drudy,
• Pepin Press
• Hillhouse and Mansfield,”Dress Design Draping and flat pattern
• making.” Houghton.
• Jaffe Hilde and relis Nurie,” Draping for Fashion Design”, Prentice Hall.

RESEARCH PROJECT
Marks:100
Int:50
Ext(viva):50

1. To select a relevant topic for research related to fashion or allied field.
2. To formulate a plan of action for the same.
3. Submitting a Report stating the review work, objectives, methodology, summary
   and conclusion (topics can be taken related to some industry, survey, product
   development or some concern related to fashion).