

**OUTLINES OF TESTS,
SYLLABI AND COURSES OF READING
FOR
M. Sc. (Fashion Technology)
PART-II**

2019-20

Continued for session 2020-21

ACADEMIC SESSIONS



**PUBLICATION BUREAU
PUNJABIUNIVERSITY, PATIALA**
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ORDINANCES**MASTER OF SCIENCE
(SEMESTER SYSTEM EXAMINATION)**

1. The course for the Degree of Master of Science shall be spread over two academic years to be called M.Sc. Part-I and M.Sc. Part-II. Each part shall consist of two semesters. The examination for the first semester and third semester shall be held in the month of December/January and the examination for the second semester and fourth semester shall be held in the month of April/May or such other dates as may be fixed by the Academic Council.

2.(i) Last date by which the admission form and fee complete in all respects must reach the Registrar shall be as follows :

Semester Examination	Without Late Fee	With Rs.800/- Late Fee	With Rs.1200/- Late Fee	With Rs. 5000/- Late Fee	With Rs. 10,000/- Late Fee
December/ January	30 th September	15 th October	21 st October	31 st October	10 th November
April/ May	28 th February	15 th March	21 st March	31 st March	15 th April

(ii) Incomplete form or forms of candidates who have not cleared his/her all dues will not be accepted.

(iii) The amount of examination fee to be paid by a candidate for each semester: shall be as prescribed by the University from time to time.

(iv) The medium of examination and instruction shall be English.

(v) The syllabus shall be such as may be prescribed by the concerned faculty from time to time.

3. The M.Sc. course shall be available in the following subjects and candidate may seek admission in anyone of these courses

Physics

Applied Physics

Astronomy & Space Physics

Chemistry

Statistics

Forensic Science

Mathematics

Botany

Food and Nutrition

Human Biology

Zoology

Sports Coaching

Geography

Sports Science

Nanotechnology

Applied Mathematics & Computing

Fashion design and technology

4. The internal assessment in each theory paper shall have 26 marks. Weightage to different

1.	Attendance	20%	% of the Total Marks of the Internal Assessment
2.	Written Assignment/project work	40%	
3.	Two Mid-Semester Tests/Internal Examination	40%	

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ent will be given as following-

The awards of internal assessment shall be dispatched by the Head of the Department before the commencement of semester examinations. The Assignment/ Project will be allotted to all the students from the respective syllabi of theory papers. The assessment of Assignment / Project will be given by the concerned teacher to the office of the Head of the department in prescribed Performa.

The teacher/teachers concerned/ incharge of each paper/ practical class will be responsible for the evaluation and submission of the internal assessment.

(iii) There will be no internal assessment in Practical.

(iv) To pass in a paper the candidate must secure 35% marks in the external examination and 35% marks in aggregate (internal and external).

(v) For a candidate who fails in a paper(s) his internal assessment examination for that paper will be carried over and the supplementary examination will, therefore, consist of only an external examination.

Note: The Internal Assessment will be formulated and sent to COE as per prescribed schedule, failing which the result of concerned candidates will be shown as R.L.

5. Eligibility:

The Part-I (M.Sc. 1st Semester) examination shall be open to any person who has been admitted to the course and fulfils the attendance requirements.

The admission to various M.Sc. courses the candidate should have passed the B.Sc./B.Sc.

(Hons)/B.A. examination in the relevant subjects as indicated below or B.Sc. (Hons School) in relevant subject or B.Sc. (Computer Sc./Maths/Statt) for admission to M.Sc.(Maths & M.Sc.

(Statt) in the relevant subject, in which admission is sought. The admission of the candidate will be subject to the eligibility conditions in force at the time of admissions:

M.Sc. Physics. M.Sc. Applied Physics and M.Sc. Astronomy & Space Science

B.Sc. with Physics and Mathematics, the third subject may be any other, Chemistry/Computer

Science/Electronics/Computer Maintenance/Space Science/Statistics etc. or B.Sc. (Hons. in Physics)

M.Sc.(Nanotechnology)

B.Sc. with Physics and Mathematics, the third subject may be any other, Chemistry/Computer Science/Electronics/Computer Maintenance/Space Science/Statistics etc. or B.Sc. (Hons. in Physics) or B.E. or B.Tech.

M.Sc. (Chemistry)

Chemistry as an elective subject.

M.Sc. (Forensic Science)

Any B.Sc. (Medical/Non-Medical/BDS/MBBS).

M.Sc. (Mathematics)/ Applied Mathematics & Computing

Mathematics as an elective subject.

M.Sc. (Statistics)

Statistics/Mathematics

OR

Quantitative Technique as one of the papers provided the students has studied and passed Mathematics at 10+2 level.

M.Sc. (Botany)

Botany, Zoology and Chemistry.

M.Sc. (Human Biology)

Anyone of the following:

Botany/Zoology/Chemistry/Anthropology/Anatomy/Physiology/Micro-biology/Bio-Chemistry.

M.Sc. (Zoology)

Zoology Botany & Chemistry.

The students who passed B.Sc. examination with the combination of Industrial, Fish & Fisheries, Chemistry and Zoology are allowed for admission in the M.Sc. Zoology.

M.Sc. (Food and Nutrition)

B.Sc.(Home Science) with atleast 50% marks. The candidates are also eligible for admission to M.Sc.(Food and Nutrition) who has passed the following examination:

B.Sc.(Microbiology)

B.Sc.(Microbial & Food Technology)

B.Sc.(Food Science & Technology)

Environmental Technology and Management

B.Sc. (Medical/Non-Medical or Bachelor of Engineering or Bio-Technology).

M.Sc. (Sports Coaching)

B.A./B.Sc. with Diploma in Sports Coaching.

M.Sc. (Geography)

Any B.A./B.Sc. with Geography

M.Sc. (Sports Science)

B.Sc. (Medical/Non-Medical)/Home Science/Physical Education & Sports Science or Bachelor Degree with one of the following subjects : Physiology of Exercise, Kinesiology, Bio-Mechanics, Human Anatomy, Human Physiology, Human Biology, Bio-Chemistry, Bio-Physics, Nutrition & Diet. Therapy, Child Development and Family Relations. Graduate with D.P.Ed./B.P.Ed.

M.Sc. (Fashion design and Technology Technology)

Graduation from any stream with at least 45%

Candidates shall submit their application forms for admission to the Examination duly countersigned by the Head of the Department/Principal of the college along with a certificate from the Head of the Department/Principal of the college that the candidate satisfies the following requirements:

- (a) has been on the rolls of the University Teaching Department/College throughout the academic terms preceding the semester examination and;
- (b) of having good moral character, and;
- (c) Every candidate will be required to attend 75% of the number of lectures delivered/practical in each paper. For late admission, the candidates, lectures delivered will be counted from his/her date of admission.

It shall be necessary that 75% of the lectures prescribed for the course in the syllabus are delivered before session in that paper is held.

Teaching/Seminars/Tutorial/Guided Library-Reading:

- Period of 1 hour's duration- 1 attendance
- Practical of 2-3 hours duration- 2 or 3 attendances respectively

In the Department where there is separate period Guided Library Reading, the attendance for period, like the attendance for each paper shall be 75% and will be considered like a paper of separate Unit:

- (i) In case of students, whose names are struck-off on account of non-payment of fee, their periods for the time they were not on the rolls, shall not be accounted for.
- (ii) The shortage in the attendance of lectures by the candidate will be condoned as per rules made by the University from time to time.

7. Subject to above :

- (i) There will be no condition of passing papers for promotion from odd semester to even semester in an Academic Session.
- (ii) To qualify for admission to 2nd year of the Course, the candidate must have passed 50% of total papers of the two semesters of the 1st year.
- (iii) A candidate placed under re-appear in any paper, will be allowed two chances to clear the re-appear, which shall be available within consecutive two years/chances i.e. to pass in a paper the candidate will have a total of three chances, one as regular student and two as re-appear candidate.
- (iv) The examination of re-appear papers of odd semester will be held with regular examination of the odd semester and re-appear examination of the even semester will be held with regular examination of even semester. But if a candidate is placed under reappear in the last semester of the course, he will be provided chance to pass the re-appear with the examination of the next semester, provided his reappear of earlier semester does not go beyond that next semester; Provided that for the award of the M.Sc. degree he shall have to qualify in all papers prescribed for the M.Sc. course within a period of four years from the date he joined the course.
- (v) After completion of two academic years of studies (i.e. four semesters) he shall not be admitted to any semester of the same course and will not have any privileges of a regular student.
- (vi) The minimum attendance requirement for taking an examination in a paper is 75% of the delivered lectures in that particular paper.

8. The grace marks shall be allowed according to the general ordinances relating to "Award of

Grace Marks".

9. Three weeks after the termination of examination or as soon thereafter as possible the Registrar shall publish a list of candidates who have passed the examination. Each successful candidates in Part-I examination shall receive a certificate of having passed that examination. A list of successful candidates in Part-II examination be arranged in three Divisions according to Ordinance 10 and the division obtained by the candidate will be stated in his certificate/degree.

10. Successful candidate who obtain 60% or more of the aggregate marks in Part-I and Part-II examination taken together shall be placed in the first division. Those who obtain 50% or more but less than 60% shall be placed in the second division and all below 50% shall be placed in the third division.

11. *A candidate who has passed M.Sc. examination from this University shall have two chances within a period of two years after passing the examination to improve division/55% marks. Improvement shall be allowed in not more than 50% of total theory papers offered in Part-I and Part-II examination. However, previous marks of Practical/Project will be carried forward in the paper(s) in which he appears for improvement.

** Note : Out of papers taken up the candidate, will be given benefit of increase in marks, where the marks have increased in Paper/Papers.*

SYLLABUS
M.Sc. (Fashion Technology)

PART-II

(Semester III & IV)

2019-20

ACADEMIC SESSIONS

OUTLINES OF TESTS

The examinations of I and II semesters will be held in November/December and May/June, respectively. The students of this course shall also undertake in plant training/industrial training for 4-6 weeks at various industries/institutions/Research & development centers etc. after the completion of theory & practical examination of the IV semester. Each theory/practical paper shall be of 100 marks. For each theory paper except Elementary Punjabi, 74 marks shall be allocated to the paper set by external examiner. The internal assessment in each theory paper shall have 26 marks. Weightage to different components for internal assessment will be given as following-

1.	Attendance	20%	%of the Total Marks of the Internal Assessment
2.	Written Assignment/project work	40%	
3.	Two Mid-Semester Tests/Internal Examination	40%	

The awards of internal assessment shall be dispatched by the Head of the Department before the commencement of semester examinations. The Assignment/ Project will be allotted to all the students from the respective syllabi of theory papers. The assessment of Assignment / Project

will be given by the concerned teacher to the office of the Head of the department in prescribed Performa.

M.Sc. Fashion Technology Part-II
Semester-III (Exam: Nov./Dec.)

Theory Papers					
Subject Code	Subject Name	Internal Assessment	External Assessment	Total Marks	Credit Hrs.
MFT-3001	Retail Management & Merchandising	26	74	100	5
MFT-3002	Statistics	12	38	50	3
Practical Papers					
Subject Code	Subject Name	Internal Assessment	External Assessment	Total Marks	Credit Hrs.
MFT-3013	Fashion Illustration-II	-	100	100	5
MFT-3014	Drafting & Garment Construction-III	-	100	100	5
MFT-3015	Accessory Designing & Surface Ornamentation	-	100	100	5
MFT-3016	Industrial training Report/ Craft Documentation	-	100	100	2
	Total	38	512	550	

M.Sc. Fashion Technology Part-II
Semester-IV (Exam: May/ June)

Theory Papers					
Subject Code	Subject Name	Internal Assessment	External Assessment	Total Marks	Credit Hrs.
MFT-4001	Quality Control Process	26	74	100	5
MFT-4002	Fashion Entrepreneurship	26	74	100	5
MFT-4003	Research Methodology	12	38	50	3
Practical Papers					
Subject Code	Subject Name	Internal Assessment	External Assessment	Total Marks	Credit Hrs.
MFT-4014	Fashion Collection Design & Construction	-	100	100	5
MFT-4015	Portfolio	-	100	100	2
	Total	64	386	450	

M.Sc. Fashion Technology (Semester-III)**Theory Papers****Theory Paper I: Retail Management & Merchandising****Time Allowed: 3 Hrs.****Max. Marks:74****Teaching Time: 5 Lectures/week****Instructions for the paper setter**

The question paper will consist of three sections A, B & C. Section A & B will have four questions each from the respective sections of the syllabus and will carry 11 marks each. Section C will have 15 short-answer type questions carrying 2 marks each covering the entire syllabus uniformly.

Instructions for the candidate

Candidates are required to attempt two questions each from Sections A & B of the question paper and the entire Section C.

Section-A

- Organizational structure of export house, buying house and domestic companies.
- Buyer classification.
- Retail organization structure, buying and selling, line and staff Function, Role and Responsibility of retail fashion buyer.
- Customer identification.
- Retail Fashion Promotion
 - Marketing channels
 - Planning and direction
 - Fashion advertising, classification of retail advertising: IT application for retailing.
 - Visual merchandising
 - Relationship marketing
- Fashion forecasting: trend analysis, merchandising planning
- Range development.

Section-B

- Role and responsibilities of Merchandiser.
- Time Flow management: Order Execution-Sampling to packaging time management, time estimation at every stage of order execution, maintain time scheduling chart, Case study to understand time scheduling
- Vendor Management: Vendor Relations, Vendor Matrix Vendor Partnership.

- Purchase term: Discount, Purchase, Order, Payment Terms
- Sourcing and Global sourcing

Suggested Readings

1. “Fashion Marketing” By Essey Mike, Publisher Blackwell.
2. “Consumer Behavior in Fashion” By Soloman, Michale R, Publisher Pearson.
3. “Fashion Marketing and Merchandising” By Mary, Publisher Goodheart-Willcox
4. “Fashion Marketing and Merchandising” By Pooja Chatley, Publisher Kalyani Publisher

Theory Paper II: Statistics

Time Allowed: 3 Hrs

Maximum Marks: 38

Teaching Time: 3 Lectures/week

Instructions for the paper setter

The question paper will consist of three sections A, B & C. Section A & B will have four questions each from the respective sections of the syllabus and will carry 6 marks each. Section C will have 7 short-answer type questions carrying 2 marks each covering the entire syllabus uniformly.

Instructions for the candidate

Candidates are required to attempt two questions each from Sections A & B of the question paper and the entire Section C.

Section-A

- Meaning and scope of statistics.
- Classification and tabulation of data, frequency distribution, categorization of data, coding, tabulation.
- Measures of central tendency: Mean, Medium, Mode.
- Measures of dispersion: range, mean deviation, standard deviation, root mean square deviation, variance moments about origin and moments about mean, Binomial and Normal distribution, Skewness and Kurtosis.

Section-B

- Analyses Variance: One-way & Two-way. Correlation- Pearson’s correlation, scatter diagram, Spearman’s correlation. Significance of difference between correlations.
- Tests of significance: Null hypothesis, Alternative hypothesis, levels of significance- Type I and Type II errors, chi-square, goodness of fit.
- Parameter & Statistics, sampling distribution and sampling error, standard error.
- T-test: single mean, independent mean, paired mean.

Suggested Readings

1. G.W. Snedecor, Statistical Methods
2. A.K.P.C. Swan, Business Research Methods and Statistics
3. S.C Gupta, Fundamentals of statistics
4. Kerlinge, Foundations of Behavioral Research

Practical Papers**Practical Paper I: Fashion illustration-II****Time Allowed: 3 Hrs****Maximum Marks: 100**

- Illustrate different type of necklines, sleeves, trousers ,skirts ,waistlines
- Detailing of hemlines, edgings, pockets, fastenings, trimmings & accessories
- Periodic fashion illustration:
 1. Ancient Indian costume
 2. Modern Indian costumes
 3. Victorian period
 4. Modern Fashion.

Suggested Readings:

1. “Big Book of Fashion Illustration” By Martin Dawber, Publisher Batsford.
2. “A Hand Book of Costume Drawing”By Georgia O’Daniel, Publisher Focal Press.
3. “Fashion Source Book” By Kathryn, Publisher Blackwell.
4. “Encyclopedia of Fashion Details” By Patric John.

Practical Paper II: Drafting & Garment Construction-III**Time Allowed: 4 Hrs****Maximum Marks: 100**

Draping:

- Equipment needed
- Grain
- Seam allowances/ease
- Dress form
- Preparation of fabric

Preparation of basic patterns for:

- Draping Basic Bodice Block- Front and back
- Draping Basic Skirt- Front and back
- Bodice variations- Princess line, Yokes with gathers, Pleats and cowl.

Drafting and Construction:

- Gown
- Trouser male/female
- Shirt male/female
- Importance of drafting and lay-out and their scope.
- Layout of pattern on different fabric widths.

Suggested Readings

1. "Dress Design: Draping and Flat Pattern Making", M.S. Hillhouse, E.A. Manfield, Publisher Houghton Mifflin College Division.
2. "Professional Patterns Grading For Men's, Women's and Children" By Jack Handford, Publisher Fairchild Books and Visual.
3. "Draping for Fashion Design" By Jaffe Hilde and Relis Nuire.
4. "Pattern Making for Fashion Design" By Helen Joseph Armstrong.
5. "Basic Pattern Skills for Fashion Design" By Bernard, Publisher Jeanne.

Practical Paper III: Accessory Designing and Surface ornamentation**Time Allowed: 3 Hrs****Maximum Marks: 100**

- Fashion accessories- its types [bags, hats/ millinery, gloves, shoes, belts, neckties, scarves, jewelry.
- Design and construct a hand bag by using any Indian traditional embroidery.
- Design and construct a scarf with block printing.
- Design and renovate a footwear/belt with stencil printing
- Design and construct a head gear by using any method of surface ornamentation.

Suggested Readings:

1. Fashion Accessories, John Peacock
2. Hats Status styles and Glamour, Colin Mc Dowell
3. Fashion source Technical Design, Progeone
4. Moda Fashion, Gri Baudo
5. Shoes Fashion and Fantasy, Colin Mc Dowell
6. Encyclopedia of fashion accessories, Phyllis Torbora

Practical Paper IV: Industrial Training Report/ Craft Documentation**Time Allowed: 3 Hrs****Maximum Marks: 100**

- A visit to any garment /textile industry/ export or import house / craft cluster.
- Duration 4-6 weeks.
- Submission of the industrial training report/ document, oral presentation and display.

M.Sc. Fashion Technology (Semester-IV)**Theory Papers****Theory Paper I: Quality Control Process****Time Allowed: 3 Hrs.****Max. Marks:74****Teaching Time: 5 Lectures/week****Instructions for the paper setter**

The question paper will consist of three sections A, B & C. Section A & B will have four questions each from the respective sections of the syllabus and will carry 11 marks each. Section C will have 15 short-answer type questions carrying 2 marks each covering the entire syllabus uniformly.

Instructions for the candidate

Candidates are required to attempt two questions each from Sections A & B of the question paper and the entire Section C.

Section-A

- Quality- Definition, essential, characteristics.
- Fabric and garment defects.
- Testing of garment.
- Tools of quality- Causes and effects of fishbone diagram, checklist, flow chart, control chart, histogram, scatter diagram, pretogram.

Section-B

- Techniques of quality control- Kaizen, 5S, TPM (total production maintenance), TQM (total quality management), Lean manufacturing, Toyota production system, 6 sigma tool for quality control, Fabric inspection system & limitation, Inspection planning, Dallas system, Inline inspection.
- Define standards of quality.
- Operation department- pre production planning, raw material, control procedures.
- Quality department-quality from design to dispatch and inspection system.

Suggested Readings

1. "Quality Control In Apparel Industry" By P.V. Mehta, Publisher New Age.
2. "Quality Assurance for Textile and Apparel" By Sara J Kadolph, Publisher Fairchild.
3. "Fashion Concept to Consumer" By Dickerson, Publisher Pearson.

Theory Paper II: Fashion Entrepreneurship

Time Allowed: 3 Hrs

Maximum Marks: 74

Teaching Time: 5 Lectures/week

Instructions for the paper setter

The question paper will consist of three sections A, B & C. Section A & B will have four questions each from the respective sections of the syllabus and will carry 11 marks each. Section C will have 15 short-answer type questions carrying 2 marks each covering the entire syllabus uniformly.

Instructions for the candidate

Candidates are required to attempt two questions each from Sections A & B of the question paper and the entire Section C.

Section-A

- Introduction to Entrepreneurship.
- Study of various essential aspects of entrepreneurship.
- Identification and development of essential entrepreneurial skills.
- Role of entrepreneurship skills in fashion and garment industry
- Sources of funds for fashion industry.
- Role of industrial tie-ups in fashion industry.
- Models for decision making.
- SWOT Analysis.

Section-B

- Supply chain management in garment and fashion industry.
- Entrepreneurship development.
- 1 month entrepreneurship in the garment industry.
- Working on designing and finally forming a survey report on the industry, its type, its working, its departments and personnel, jobs undertaken, references, observations, precautions, etc.
- The report should have a detailed information about the industry the student joined for entrepreneurship-the type of industry (public/private/partnership), the names of directors, the departments of the industry, its personnel, their working, the jobs undertaken at the industry, the products being manufactured, the marketing of the products, the raw material being used, the clients, their inventory control system, photographs, samples, diagrams etc.
- The report should also include the work done by the student during his/her training, specifying what all new was learned during this period.
- The report should be accompanied by the training certificate from the industry.
- It should be signed by the student.

Suggested Readings

1. "Fashion Entrepreneur (Fashion Design Series)" By Sandra Burke, Publisher Burke.
2. "Fashion Buying" By Helen Goworek, Publisher Blackwell.
3. "Inside the Fashion Business" By Dickerson, Publisher Pearson.

Theory Paper III: Research Methodology

Time Allowed: 3 Hrs

Maximum Marks: 38

Teaching Time: 3 Lectures/week

Instructions for the paper setter

The question paper will consist of three sections A, B & C. Section A & B will have four questions each from the respective sections of the syllabus and will carry 6 marks each. Section C will have 7 short-answer type questions carrying 2 marks each covering the entire syllabus uniformly.

Instructions for the candidate

Candidates are required to attempt two questions each from Sections A & B of the question paper and the entire Section C.

Section A

- Introduction, significance and objectives of Research.
- Types of Research: Experimental, Field studies, Case study and Survey research.
- Designing Research: Problem, hypothesis, concept and types of variables (dependent, independent, random, discrete, continuous, qualitative and quantitative)

Section B

- Methods of data collection: Interview, observation, questionnaire, rating scales.
- Sampling: Meaning, importance and types, random (simple, stratified, cluster), Non random (incidental, purposive, quota)
- Report Writing- Significance, Different steps in report writing,
 - Layout of report.
 - Mechanics of writing a research reports.
 - Precautions of writing research report.

Suggested Readings:

1. R.P.A Devadas, Handbook on methodology of Research
2. A.K.P.C. Swan, Business Research Methods and Statistics
3. S.C Gupta, Fundamentals of statistics
4. Kerlinge, Foundations of Behavioral Research

Practical Papers**Practical Paper I: Fashion Design Collection & Construction****Time Allowed: 3 Hrs.****Teaching Time: 5 Lectures/week****Max. Marks:100**

Fashion Design Collection

- Using accessory ,jewelry, creating background
- Color board, mood board, client board, swatch board etc.
- Illustrate dresses on different themes for the fashion show.

Fashion Design Construction

- Construction of the garments according to theme for the fashion show.

Suggested Readings:

1. “Big Book of Fashion Illustration” By Martin Dawver, Publisher Batsford.
2. “Illustrating Fashion” By Kathryn & Munslow, Publisher Blackwell.
3. “Fashion Source Book” By Kathryn, Publisher Blackwell.
4. “Dress Design: Draping and Flat Pattern Making”, M.S. Hillhouse, E.A. Manfield, Publisher Houghton Mifflin College Division.
5. “New Complete Guide to Sewing” By Reader Digest, Publisher Reader Digest New York.
6. “Professional Patterns Grading For Men’s, Women’s and Children” By Jack Handford, Publisher Fairchild Books and Visual.
7. “Garment Technology for Fashion Designers” By Gerry Cooklin.
8. “Guide to Producing a Fashion Show Second Edition” By Judith CE. Everet, publisher Swanson.

Practical Paper II : Portfolio**Teaching Time: 2 Lectures/week****Max. Marks:100**

- Students will organize their best work in a single designer lodge.