MASTER OF SCIENCE IN APPAREL AND FASHION DESIGN

(FromAcademicYear2021-22onwards)

தமிழ்நாடு திறந்தநிலைப் பல்கலைக்கழகம்
Tamil Nadu Open University
[A State Open University established by Government of TamilNadu, Recognized by UGC-DEB,
Member in Asian Association of Open Universities and Association of Commonwealth Universities]

Department of Apparel and Fashion Design
School of Sciences

தமிழ்நாடு திறந்தநிலைப் பல்கலைக்கழகம்

Tamil Nadu Open University, Chennai

சென்னை – 15

Department of Apparel and Fashion Design
School of Sciences

MASTER OF SCIENCE IN APPAREL AND FASHION DESIGN

(From Academic Year 2021 - 22 onwards)

பாடத்திட்ட அறிக்கை & விரிவான பாடத்திட்டம்

Programme Project Report (PPR) & Detailed Syllabus

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M.Sc. Apparel And Fashion Design PPR-Detailed Syllabus
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DECEMBER 2020

Tamil Nadu Open University

[A State Open University established by Government of Tamil Nadu, Recognized by UGC-DEB, Member in Asian Association of Open Universities and Association of Commonwealth Universities]

No- 577, Anna Salai, Saidapet, Chennai -600015, Tamil Nadu, India

Prof. K.Parthasarathy
Vice-Chancellor

FOREWORD

I am greatly honoured and delighted to present the Tamil Nadu Open University Vision 2030. The Tamil Nadu Open University was established in 2002, aiming to reach the hitherto unreached. Since then, it has been one among the pioneer universities in the country providing quality education to all.

In order to carry on the legacy as well as measure up to the challenges such as globalization, privatization, increased competition, need for employability, advanced research etc., it is important to devise a vision for the next ten years to pursue the plans that we set for the future.

The TNOU Vision 2030 is prepared with foresightedness and utmost care in all respects in light of the Nation Education Policy 2020 in order to achieve the national mission. Our vision is to provide holistic curricula, adopt the best teaching-learning and evaluation processes, render contribution through research, expanding ODL to all levels especially to reach the Socio-Economically Disadvantaged Groups (SEDGs) with quality and equity, to provide modern infrastructural facilities, dedicated learner support services without any compromise, entrepreneurship and skill development, quality enhancement aims to achieve international standards, establish state repository for open educational resources, and to provide extension activities.

As per the All India Survey on Higher Education (AISHE) Report, the Gross Enrolment Ratio (GER) in Higher education in India is 26.3% whereas in Tamil Nadu, it is 49%, it means that 73.7% people of India and 51% of Tamil Nadu are unable to access Higher Education. Open and Distance Education (ODL) is one of the options to provide quality education to the SEDGs. The contribution of Distance Education in the national GER is about 10.62% of the total enrolment in higher education.

Strengthening of ODL will definitely give way for all people in the country to access higher education. With proper planning and implementation of the ODL, we could achieve more and Tamil Nadu Open University will emerge as the singular abode for institutions of higher learning in ODL mode which can compete and collaborate with the best in the world in terms of quality and equity.

In this view, as Vice-Chancellor of Tamil Nadu Open University has prepared a Vision paper 2030with a support of few experienced faculty members of the University. This vision statement will act as the road map to give a sense of direction and guide the University into the unforeseeable future. I assure that Tamil Nadu Open University will definitely develop in all aspects and achieve global standards of quality in light of this Vision paper 2030. Let us all unite together and work accordingly to achieve the Vision 2030.

I am very much pleased to record my sincere and hearfelt thanks and profound gratitude to our Hon'ble Governor of Tamil Nadu and Chancellor of Tamil Nadu Open University for giving me an oppourtunity to serve as Vice-Chancellor of Tamil Nadu Open University from 03.06.2019 and further given me an oppurtunity to undergo training with all Vice-Chancellor's of Tamil Nadu on Conceiving and Drafting Hon'ble Governor Vision on Higher Education in Tamil Nadu 2030.

With regards,

Date: 31.07.2020

(K.PARTHASARATHY)

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School of Sciences
Department of Apparel and Fashion Design
Chennai-15

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TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department Of Apparel and Fashion Design
(From Academic Year 2021-22 onwards)

M.Sc., Apparel and Fashion Design

Programme Project Report (PPR)

Programme's mission and Objectives:

Mission: M.Sc (Apparel and Fashion Design) Programme is designed to prepare graduates with a solid understanding and expertise required to enter professional practice in the challenging and competitive Apparel and fashion industry. This course is first of its kind, designed at the university level with a unique blend of designing, production, merchandising and management.

Objectives:

- Understand the current processes and trends, new developments and technological changes in the field of Apparel and Fashion Design.
- Identify and appreciate the historic textiles and costumes of the world and draw inspiration for the present
- Apply creative, managerial and technical skills for careers and entrepreneurship in the field of apparel and textiles.
- Understand and apply tools and methods of research and statistics for conducting research in the subject area.
- Apply their knowledge and skills and reach out to the community for their capacity building.

Relevance of the Programme with HEI's Mission and Vision:

Fashion designing industry has become highly competitive today. With Apparel design education gaining prominence in the professional arena to the students can take up various positions. After completing the course, the students will be moulded as "Complete Professionals" bestowed with design competence and managerial expertise, enabling them to face the industrial and managerial demands in the fashion arena.

Nature of prospective target group of Learners: The Master of Science Degree Programme in Apparel and Fashion Design has been designed keeping in mind the youths employed in the Textile and Apparel industry. It also caters to the needs of the people who are working in the Textile and Apparel industry. The minimum eligibility for admission to Master of Science Degree Programme in Apparel and Fashion Design is Bachelor Degree in Textile/Apparel/Costume Design/Fashion Design or Any degree with 2 years of experience in fashion related industries.

Appropriateness of Programme to be conducted in ODL mode to acquire specific skills and competence: Master of Science in Apparel and Fashion Design programme has lot of scope in the Apparel and Textile industries. As outcomes programme student may gain knowledge about costume history, Sketching and Fashion illustration, Woven Fabric Structure and Fabric Analysis, Knitting Technology, Advanced Garment Construction, Technical Textiles, Computer Application in Apparel Industry, Fashion Merchandising, Textile Testing and Quality Control, Textile Chemistry and Wet Processing. Students further obtain the Practical Knowledge about Garment Construction, Fashion Designing, Fashion Illustration, Textile Testing and Computer aided Design which will facilitate the students to get better opportunity and position in Textile and Apparel industries.

Instructional Design:

The Curriculum and the Syllabus for Master of Science in Apparel and Fashion Design Degree Programme has designed by covering all the aspects of latest technology in Apparel sector. The duration of the M.Sc Apparel and Fashion Design Programme is two years and the medium of instruction is English.

The Master of Science in Apparel and Fashion Design Degree Programme is offered through the Learner Support Centres established by TNOU in the affiliated Arts and Science College, where the same Programme is offered through Conventional Mode.

The Faculty Members available at School of Science of Tamil Nadu Open University and the faculties approved as Academic Counselors of TNOU at Learner Support Centres will be used for delivering the Mater of M.Sc Apparel and Fashion Design Degree Programme

The credits systems suggested as per UGC-ODL Regulations-2020 have been assigned to M.Sc Apparel and Fashion Design Degree Programme in English. The total number of credit assigned for the Programme is 66. The Self Learning Materials in the form of print, e-content and audio/video materials wherever required has also been developed for the Programme.

Procedure for admissions, curriculum transaction and evaluation:

Eligibility: Bachelor Degree in Textile/Apparel/Costume Design/Fashion Design or Any degree with 2 years of experience in fashion and textile related industries.

Financial Assistance: SC/ST Scholarship available as per the norms of the State Government of Tamil Nadu. Complete Admission fee waiver for the physically challenged/ differently abled persons.

Policy of Programme delivery: The Academic Calendar for the Programme will be available for the learners to track down the chronological events/ happenings. The Counselling schedule will be uploaded in the TNOU website and the same will be intimated to the students through SMS.

Evaluation System: Examination to Master Degree Programme in Apparel and Fashion Design is designed to maintain quality of standard. Theory and Practical will be conducted by the University in the identified Examination Centres. For the Assignment students may be permitted to write with the help of books/ materials for each Course, which will be evaluated by the Evaluators appointed by the University.

Internal Continuous Assessment: 1 assignment for 2 credits are to be prepared by the learners. E.g. If a Course is of Credit 6, then 3 number of Assignments are to be written by the learner to complete the continuous assessment of the course. Assignment carries 30 marks, consists of Long Answer Questions (1000 words) for each Course.

Sec- A	Answer any One of the Question not exceeding 1000 words out of three question	1X30 = 30 Marks

Term End Examination: Students shall normally be allowed to appear for theory examination by completing Practical and Assignment. The Term -End Examination shall Carry 70 marks and has Part: A, Part: B and Part: C will be of duration 3 hours.

Question Pattern for Theory Examinations:

Max. Marks: 70 Time: 3 hours

PART - A (5 X 2 = 10 marks)

Answer all FIVE questions in 50 words

[All questions carry equal marks]

1. From Block – I
2. From Block - II
3. From Block - III
4. From Block- IV
5. From Block- V

PART - B (4 X 5 = 20 marks)

Answer any FOUR questions out of Seven questions in 150 words

[All questions carry equal marks]

6. From Block - I
7. From Block - II
8. From Block - III
9. From Block - IV
10. From Block- V
11. From any Block
12. From any Block

PART - C (4 X 10 = 40 marks)

Answer any FOUR questions out of Seven questions in 400 words

[All questions carry equal marks]

13. From Block - I
14. From Block - II
15. From Block - III
16. From Block - IV
17. From Block - V
18. From any Block
19. From any Block

Pattern of Question Paper for Practical Examinations:
Each set of question paper should contain questions from the syllabus and the candidate has to choose one by lot.

Awarding of marks for Practical examinations:
Total Marks: 100 (External Practical 70 Marks + Internal (Record 20 Marks + Practical Counselling Class Attendance 10 Marks)
Distribution for 70 Marks:
Experiment Procedure: 20 marks
Sample / Sketch Development: 40 Marks
Presentation: 10 Marks

Passing Minimum
For theory examination: The candidate shall be declared to have passed the examination if the candidate secures not less than 32 marks in the Term End Examinations (TEE) in each theory paper and secures not less than 13 marks in the Continuous Internal Assessment (CIA) and overall aggregated marks is 50 marks in both external and internal taken together.

Continuous Internal Assessment (CIA)		Term End Examination (TEE)		Overall Aggregated Marks	Maximum Marks
Minimum Pass Mark	Maximum Pass Mark	Minimum Pass Mark	Maximum Pass Mark	CIA + TEE	
13	30	32	70	50	100

For practical examination:
The candidate shall be declared to have passed the examination if the candidate secures not less than 50 marks in the university practical examination and the record notebook taken together is required to Pass the examination. There is no passing minimum for record notebook. However submission of record notebook is a must.
Project: Choose a Specialized Field Required to be attached to a Fashion &Textile industry. Each Student should submit a individual "Project report" for Evaluation.

Classification of Successful Candidates:
Candidates who pass all the courses prescribed and who secure.

- 75% and above (in first attempt only) will be placed in the ***First class with Distinction***.

- 60% and above in the aggregate of marks will be placed in the ***First Class***.
- 50% and above but below 60% in the aggregate will be placed in the ***Second Class***.

Requirement of laboratory and Library Resources:

The Programme will be offered through the Learner Support Centre (LSC) maintained by Tamil Nadu Open University. The LSC has the required infrastructural facilities to conduct the Counselling of theory and Practical for the students who wish clear their doubts and also they are having well equipped laboratory facilities relevant to the Master Degree Programme in Apparel and Fashion Design.

A well equipped Library is available in the University Head quarters with about 24,000 books and lot of research journals. The Learners Support Centre through which the Degree Programme is to be offered is also equipped will a full fledged library having books and journals related Apparel and Fashion Design.

Cost Estimate of the Programme and the Provisions

The cost estimate for development, delivery and maintenance of the Master of Science in Apparel and Fashion Design Programme is provided in the following Table.

S.No.	Details	Amount in Rs.
1	Programme development and launching cost (Expenditure)	- 24,47,724
2	Programme Fee charged for 2 years per student (Income)	20,000
3	Examination Fee charged for 2 years (Income) per student	6,000
4	Examination expenses per student for 2 years per student (Expenditure)	- 3,600

Quality Assurance Mechanism:

The Quality of the Bachelor Degree Programme in Apparel and Fashion Design is maintained by adopting the curriculum suggested by the UGC. The Curriculum of Master Degree Programme in Apparel and Fashion Design was approved by the Board of Studies held on 12th August, 2016. As a part of Quality assurance the

curriculum for the Programme will be updated once in three years. Accordingly, the curriculum is updated and approved by Board of Studies held on 20-06-2020. Necessary steps will be taken to obtain feedback from the students and the Academic Counsellors who are part of the Programme for effective delivery of the Programme.

Programme Specific Outcomes – M.Sc., Apparel and Fashion Design

- Understand the current processes and trends, new developments and technological changes in the field of Apparel and Fashion Design.
- Identify and appreciate the historic textiles and costumes of the world and draw inspiration for the present
- Apply creative, managerial and technical skills for careers and entrepreneurship in the field of apparel and textiles.
- Understand and apply tools and methods of research and statistics for conducting research in the subject area.
- Apply their knowledge and skills and reach out to the community for their capacity building.

Structure of the M.Sc Apparel and Fashion Design

First Year:

Course Code	Course Title	Credits	Marks Distribution		
			Spot Assignment (Internal)	Term End Exam (External)	Total
Semester I					
MSAF- 1	Research Methods and Statistics	4	30	70	100
MSAF- 2	World Textiles and Costume	4	30	70	100
MSAF- 3	Elective 1: Indian Textile industry	2	30	70	100
MSAF- 4	Fashion Design Concept	4	30	70	100
MSAF-P1	Practical: Fashion illustration and Design	3	30	70	100
Semester II					
MSAF- 5	Textile Science and Manufacturing	4	30	70	100
MSAF- 6	Elective 2: Fashion Merchandising and Marketing	4	30	70	100
MSAF- 7	Advanced Garment Construction	4	30	70	100
MSAF-P2	Practical: Advanced Garment Construction	3	30	70	100
MSAF-P3	Practical: Ornaments and Accessories Designing	2	30	70	100
1st year mark & credit Total		**34**	**300**	**700**	**1000**

Second Year:

Semester-III					
MSAF- 8	Computer Application in Apparel Industry	2	30	70	100
MSAF- 9	Textile processing and Finishing	4	30	70	100
MSAF- 10	Garment Manufacturing Technology	4	30	70	100
MSAF - 11	Elective 3: Technical Textiles	4	30	70	100
MSAF-P4	Practical: Computer Aided Design	2	30	70	100
Semester-IV					
MSAF- 12	Textile Quality Standards and Implementation	4	30	70	100
MSAF- 13	Elective 4: Entrepreneurship management and Retailing	4	30	70	100
MSAF – P5	Practical: Dyeing and Printing	2	30	70	100
MSAF- P6	Practical: Textile Testing	2	30	70	100
MSAF- 14	Project Work	4	50	150	200
2nd year mark & credit Total		**32**	**320**	**780**	**1100**
Total Mark and Credit		**66**	**620**	**1480**	**2100**

*** Project Dissertation Submitted to the University and Viva Voce Conducted**

TAMIL NADU OPEN UNIVERSITY
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M.Sc (Apparel and Fashion Design) Syllabus- I year (Distance Mode)

Course Title	RESEARCH METHODS AND STATISTICS
Course Code	MSAF -1
Course Credit	4

COURSE OBJECTIVES

While studying the Research Methods and Statistics course, the student shall be able to:

- Understand the methodology of research, principles and techniques.
- Develop skills in conducting research from planning a study to report writing.
- Apply statistical procedure to analyze numerical data and draw inferences

COURSE OUTCOMES

After completion of the Research Methods and Statistics course, the student will be able to:

- Impart knowledge about Research methods and statistics
- Acquire the details about data collection and its processing
- Characterize Type of Research and scope in fashion designing field
- Perceptive about the data processing
- Insightful about the Sampling and its technique

BLOCK – 1: FUNDAMENTAL CONCEPT OF RESEARCH

UNIT-1: Research Introduction - Meaning, Definition, objective and characteristics of research

UNIT-2 : Types of research - Types of research – basic research (fundamental research), applied research, action research, expost facto research, evaluation research, historical research, exploratory research, industrial research and developmental research.

UNIT-3: Research Design --Meaning and purpose of a research design or proposal

UNIT-4: Research problem- definition, identification statement of research problem, criteria for selection, and definition of concepts (operational definition).

UNIT-5: Variables - types of variables, independent and dependent variables, control and intervening variables. Hypothesis- meaning and Importance, types, Finding related literature: Significance, sources, role taking.

BLOCK- 2: RESEARCH METHOD AND TOOL

UNIT-6: Research Methods- Survey, observation, interview, experimentation, case study (clinical method).

UNIT-7: Research Tools -Questionnaire, schedule (for interview and observation) rating scales, attitude scales. Development of tools - reliability, validity and item analysis. Other methods and tools of research in specialized areas.

UNIT-8: Sampling - Census and sample method-theoretical basis for sampling, methods of sampling, size of sample, merits and limitations of sampling, sampling and non sampling errors, reliability of sampling

BLOCK- 3: CLASSIFICATIONS OF DATA AND REPORT WRITING

UNIT-9: Classification and Organization of Data- Objectives of classification, types, discrete and continuous variables, tabulation of data, parts of a table, types of tables, general rules of tabulation.

UNIT-10: Representation of Data- Significance of diagrams, graphs, types of diagrams and graphs, limitations of diagrams and graphs.

UNIT-11:Research Report Writing-Principles of report writing, basic components- preliminaries, text of reports, bibliography, foot notes, spacing, margins, indentations, quotations, writing a scientific paper.

BLOCK- 4: STATISTICS

UNIT-12: Statistics Introduction - Meaning and scope of statistics- Role of statistics in research

UNIT-13: Methods Of Consolidation Of Data - Qualitative analysis- Descriptive grouping, Quantitative analysis- Discrete series- Continuous series

UNIT-14: Measures of central tendency and dispersion - Measures of variability- range, quartile deviation, mean deviation, standard deviation

UNIT-15: Co-relation, Co-efficient of Co-relation and its Interpretation, rank Co-relation, regression equation and predictions.

BLOCK- 5: STATISTICAL ANALYSIS

UNIT-16: Elements of testing of a statistical hypothesis, formulation of the problem.

UNIT-17: Definition of type -I and type-II errors, Levels of significance large sample test for proportions.

UNIT- 18: Difference in proportions for means and difference in means. Application of students test for small samples for single mean, difference in means- test for equality of variance.

UNIT- 19: T- test, F-test, z-test

UNIT- 20: Application of Chi-square test, ANOVA test.

REFERENCES

- ★ Introduction to research in education, Ary Hort Reinhart(1982)
- ★ Research in education, best J N, Prentice hall, Delhi(1979)
- ★ An introduction to statistical methods, P. Gupta, Vikas publishing House ,New Delhi
- ★ Research methodology by C. R Kothari, Published by Wiley Eastern Ltd, New Delhi.

TAMIL NADU OPEN UNIVERSITY
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Chennai-15

M.Sc (Apparel and Fashion Design) Syllabus- I year (Distance Mode)

Course Title	WORLD TEXTILES AND COSTUMES
Course Code	MSAF -2
Course Credit	4

COURSE OBJECTIVES

While studying the World Textiles and Costumes course, the student shall be able to:

- Understand about the Textile and Costume History and Development
- Study the world Costume and Textile of Different country.
- Develop skills about the development of costume through the age

COURSE OUTCOMES

After completion of the World Textiles and Costumes course, the student will be able to:

- Impart knowledge about Historical development of Costume and Textile
- Acquire the knowledge about world costumes of Egypt, Greek, Roman and French
- Appreciate the Various country fashion and its forms
- Perceptive about the World Costume Change during ancient period to 19th century

BLOCK -1: WORLD TEXTILES -1

UNIT-1: Introduction to Costume and textiles - Pre-historic, Development, Adoption of fibrous apparel, Initial manufacture of clothes

UNIT- 2: French Textiles - Linen in France , French Renaissance , Motifs- the Rococo Style- Toile de jouy.

UNIT- 3: English Textiles - English Chintz and linen - Motifs – Tapestries, Turkish Textiles - Motifs - Turkish embroidery

BLOCK – 2: WORLD TEXTILES -2

UNIT- 4: Far Eastern Textile - Chinese Textiles-Silk- Motifs and designs- Animal, motifs-The tiger-dragon, phoenix and unicorn, Japanese Textiles- Exploration of silk fiber- Plangi work, ndonesian Textiles-Batik technique-.

UNIT-5: Indian Textiles – Indian brocades-motifs- Shawls of India - Indian embroideries- Chikankari, Phulkari, Chamba rumals-Kasuti-Kanthas - Indian dyed and Printed fabrics- Bandhini - Patola silks- Kalamkari works

UNIT-6: Middle East Textile - Textiles of Egypt- Motifs of Egyptian fabrics-Coptic - textiles- Tapestry weaving. Textiles from ancient Persia- Sasanian Dynasty -Motifs- Fibers, the Safavid Dynasty- Motifs- Oriental Carpets - Symbolism - African Textiles- Kente- Adire- Adinkra

BLOCK -3: ANCIENT PERIOD COSTUMES

UNIT-7: Costume of ancient - Egypt, Greece, Rome , African Tribal Costumes

UNIT-8: French costumes - During the period of renaissance 16th -18th Centuries.

UNIT-9: American costumes: American costumes from 18th to 20th Centuries

BLOCK- 4: AMERICAN AND EUROPEAN COUNTRIES COSTUME

UNIT-10: American Countries costume I -Inuit and Aleut, American Indians of the southwest, Plains and northwest, Amish costumes, Guatemala

UNIT-11: American Countries costume II - Mexico, Colombia, Peru and Bolivia, Chile and Brazil.

UNIT-12: European countries costume I –Russia, Finland, Italy, Norway, Sweden , Denmark, Scotland,

UNIT-13: European countries costume II - Austria, Germany, Spain, Belgium, Ireland Switzerland, Hungary, Poland and Ukraine

BLOCK- 5: EASTERN COUNTRIES AND AFRICAN COUNTRIES

UNIT-14: Middle Eastern Countries - Turkey and Iran, Costumes of Arab Peninsula, Mongolia, Pakistan

UNIT-15: Far Eastern Countries I - China, Japan, Korea, Taiwan Thailand and Philippines

UNIT-16: Far Eastern Countries II – Sri Lanka, Pakistan, Bhutan Nepal, Vietnam, Cambodia, Myanmar ,

UNIT-17: African Countries I—Egypt, Libya, Nigeria, Angola, Gabon, Sudan, Ethiopia,

UNIT-18: African Countries II —Kenya, Uganda, Tanzania, Botswana, Congo, Namibia, Zambia, Zimbabwe, Nigeria and Cameroon

REFERENCES:

- ★ History of Textile Design by Dr. V.A. Shenai, Sevak Publications,1995
- ★ Costumes of Indian and Pakistan, Das S N, D B Taraporevala Sons & Co, Bombay (1958)
- ★ Historic Costume, Chas A, 'Bernard and Co, illinois (1961)
- ★ Costume through the Ages, Laver, JamesSimon and Schuster, New York (1968).
- ★ Costumes throughout the Ages, Eoan C C, J B Limancott
- ★ The History of Costume; Kemper, Rachel H
- ★ Early Decorative Textiles by W.Fritz Volbach, The Hamlyn Publishing Group Ltd, Middlesex,1969

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M.Sc (Apparel and Fashion Design) Syllabus- I year (Distance Mode)

Course Title	ELECTIVE -1: INDIAN TEXTILE INDUSTRY
Course Code	MSAF -3
Course Credit	2

COURSE OBJECTIVES

While studying the Indian Textile Industry course, the student shall be able to:

- Study on overview of Indian textile industry.
- Familiarize the Development of Indian textile industry
- Understand the Major segment of Indian textile industry.
- Get knowledge on the recent technological development in Indian textile industry.

COURSE OUTCOMES

After completion of the Indian Textile Industry course, the student will be able to:

- Know the Major segments of the Textile industry
- Familiar about recent technological development of textile industry
- Impart knowledge about the promotional services in textile industry
- Acquire the knowledge about Major segments of the Textile industry

BLOCK- I OVER VIEW OF INDIAN TEXTILE INDUSTRY

UNIT-1: Overview of the textiles industry

UNIT-2: Origin, Growth and Development of Indian Textile Industry - Cotton, Wool, Silk,

UNIT-3: Origin, Growth and Development of Indian Textile Industry - Rayon, Man-Made Textiles

UNIT-4: Origin, Growth and Development of Indian Textile Industry - Readymade garments.

BLOCK- II PLANS AND ORGANISATION RELATED TO TEXTILE INDUSTRY

UNIT-5: Five year plans for the textile Industry - Recent plan and previous 5 five year plans

UNIT-6: Organizations related to the Textile and clothing Industry - Concept of GATT, MFA, WTO, ATC and Globalization.

BLOCK- III PROMOTION COUNCIL AND RESEARCH ASSOCIATION

UNIT-7: Overview of global and Indian textile industry - Nature, size, structure and trade of various sectors of the industry

UNIT-8: Evolution and Growth - Employment prospects-supporting institutions and organizations

UNIT-9: Trade promotion services (AEPC, CMAI, PEXCIL)- Handloom and Handicrafts Development Corporation, Silk Board, KVIC,CCIC, NIFT, IIT, NID –

UNIT-10: Textile research associations- Textile Committee. Export Promotion Councils of India.

BLOCK- IV TEXTILE SECTORS

UNIT-11: Major segments of the Textile industry-Organized textile sector

UNIT-12: Decentralized sector- Handloom and powerloom sector- Cotton and man-made filament yarn industry-

UNIT-13: Woolen textile industry-Sericulture-Other fibers.

BLOCK- V RECENT TECHNOLOGY IN TEXTILE INDUSTRY

UNIT-14: Recent technological development in spinning, weaving knitting and non woven industry- Significance and uses.

UNIT-15: Recent technological development in allied industry like dyeing, printing and finishing industry..

REFERENCES:

- ★ Textiles - Fiber to fabric, Bernard P Corbman, 6th edition, McGraw Hill Book Co, Singapore
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- ★ Fabric Care, Normia D'Souza, New Age International Pvt Ltd, New Delhi Journals:
- ★ Indian Textile Journal- Business Press P. Ltd, Maker Tower B-18 floor, Cuffparade, Mumbai - 400009 .

- Indian Cotton Mills Federation - ICM - Textile Centre 34 P-d, Mello Road, Mumbai 400 009
- Indian Silk, Central Silk Board, Ministry of Textiles, M G Road, Bangalore - 560 001.
- Man-made Textiles in India - SASMIRA, Sasmiramarg, Worli, Mumbai
- Textile Magazine, Magazine House, 710 Mount Road, Chennai
- Textile trends, East land Publications Pvt Ltd, 44 Chittranjan Avenue, Calcutta-12.
- HandIoom Export Promotion Council 622 Mount Road Chennai
- Garments India, Garment India Press, 53 South West Road, Chennai-17
- Indian Jute Bulletin-Indian Regional office, 4K S Pay road, Calcutta -1 .
- Hosiery and Textile Journal-International Magazine Home-164 Modi Street, Fort, Mumbail
- Textile Highlights, 396, Veerasavarkarmarg, Poabhadevi, Mumbai-25
- Clothing News Bulletin, Clothing Manufacturers Association of India House, Mumbai-26

TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department of Apparel and Fashion Design
Chennai-15

M.Sc (Apparel and Fashion Design) Syllabus- I year (Distance Mode)

Course Title	FASHION DESIGN CONCEPT
Course Code	MSAF -4
Course Credit	4

COURSE OBJECTIVES

While studying the Fashion Design Concept course, the student shall be able to:

- Study on overview about the concept of fashion terminology and industry concept .
- Make acquainted the Fashion Figure Drawing with color applications
- Get knowledge on the Fashion presentation and Technique

COURSE OUTCOMES

After completion of the Fashion Design Concept course, the student will be able to:

- Gain the Knowledge in Fashion industry terminology and concepts
- Give the experience in Fashion Figure Drawing with color applications
- Understand the knowledge of Facial features and its components in drawing
- understand the inspirational Fashion and presentations
- create the ability and express their ideas through Sketching

BLOCK I - FASHION INDUSTRY OVER VIEW

UNIT-1: Fashion design -Introduction to Fashion terminologies, concepts, its creation and analysis

UNIT-2: Features of fashion – style, acceptance, change. Factors affecting fashion – economic factors, sociological factors, psychological factors.

UNIT-3: Stages of the fashion, Adoption theories of fashion,

UNIT-4: Fashion designers- Indian & international designers

BLOCK II - HUMAN PROPORTION & BODY TYPE

UNIT-5: Human proportion and figure construction- Methods of determining individual proportions, Heads theory.

UNIT-6: Evaluating The body-Figure analysis- Different body type- designing for various figure types.

UNIT-7: Women's body types - pear, diamond, round, hourglass, inverted triangle, straight body types.

BLOCK III – DESIGN CONCEPT

UNIT-8: Elements of design- dot, line, checks, silhouettes, colour, texture, etc.-its effects,

UNIT-9: Principles of design- repetition, gradation, dominance, unity, harmony, contrast, proportion, balance, rhythm- its effects

UNIT-10: Classic and innovative fashion details- necklines, collars, sleeves, waistlines, cuffs, skirts, trousers, yokes, waistlines, pockets, etc- Illustration of garments.

BLOCK IV - COLOUR

UNIT-11: Colour- Dimensions of colour- hue, intensity and value, Colour wheel, Colour mixing,

UNIT-12: Colour schemes and combinations- complimentary, analogous, split complimentary, warm and cool colours, tints tones and shades, monochromatic, achromatic, pastels and dusty pastels. - The effect of these colour schemes-

UNIT-13: Effect of colours- red, green, blue, yellow, pink, orange, purple, black, white, grey, neutrals- Textural effects- Use of textures in fashion designing etc.

BLOCK 5 - DESIGN DEVELOPMENT AND PRESENTATION

UNIT-14: Inspirational Fashion- Designing on themes like culture, environment, monuments, seasons etc.

UNIT-15: Illustrating dresses made on innovative themes- Designing Clothes line for Kids wear using different themes and fabrics.

UNIT-16: Designing clothesline for Women wear using different themes, fabrics, and surface ornamentations.

UNIT-17: Different Presentation Techniques- its forms and purpose-Swatch board- and the use of swatches on the surface texture of the dresses illustrated,

UNIT-18: Front and back illustration- the use and different illusion effect-Client board and its effective use in designing dresses for a particular client- Stylization of fashion figures, stylization of dresses.

UNIT-19: Textural effects- effect of silk, velvet, net, chiffon, satin, brocade, etc-

UNIT-20: Presentation Board - Survey board, mood board and theme board.

REFERENCES:

- ★ Fashion from Concept to Consumer by Gini Stephens Frings, Prentice Hall, 2002.
- ★ Individuality, Suzanne Greene Marshall, Mary Kefgen, Prentice Hall, 2000.
- ★ Comdex fashion design, Vol I, Fashion Concepts, Dr. Navneet Kaur, Dream Tech Press,2010.
- ★ Comdex fashion design, Vol II, Ensembles for your body type, Dr. Navneet Kaur, Dream Tech Press,2010.
- ★ Figure drawing for fashion design-Elizabetta Drudi , Tiziana Paci - 2010.
- ★ Fashion source book - Kathryn McKelvey - 2006.
- ★ New Encyclopedia of fashion details : Over 1000 Fashion Details, Batsford, - Patrick John Ireland - 2009.
- ★ Fashion Sketching, Alferd D. Dortennzio, Delmer Publishers, 1998.

M.Sc (Apparel and Fashion Design) Syllabus- I year (Distance Mode)

Course Title	PRACTICAL: FASHION ILLUSTRATION AND DESIGN
Course Code	MSAF -P1
Course Credit	3

COURSE OBJECTIVES

While studying the Fashion Illustration and Design course, the student shall be able to:

- To introduce students to fashion illustration, sketching and rendering techniques.
- To enable the students to work outward from a point of focus or inspiration to develop a complete collection.

COURSE OUTCOMES

After completion of the Fashion Illustration and Design course, the student will be able to:

- Gain the hands-on experience in Figure Drawing and Figure Proportion
- Give the practical experience in rendering techniques in fashion drawing
- Understand the knowledge of Introduction to design development
- create the ability and express their ideas through Sketching

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I. Prepare the following illustrations

- Different Lines – Vertical, Horizontal, Diagonal, Wavy, zigzag, Dotted, Dashed, Spiral etc:-
- Free hand drawing techniques of brush and pencil and related exercises.
- Introduction to different mediums- Poster Color, Photo Color, Fuji Color, Water Color, Drawing Ink, Dry Crayons, Charcoal Pencil, Charcoal Stick, Pencil.

II. Prepare the following illustrations

- Different types of lines in a garment .Illustrate the line effects in the same silhouette-any 5 types
- Creating Checked effects in a garment –one color and more than one color
- Creating printed effects in a garment –one color arid more than one color
- Drawing from Photographs –any 2 garment designs

III. Introduction to Design Development

- Inspiration Board,Mood Board, Story Board, Color Board and Swatch Board.
- Flat Sketches.
- Art Plates – Collection of Croquis /Fashion Plates.
- Portfolio Presentation on Two garment

TAMIL NADU OPEN UNIVERSITY
School of Sciences
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Chennai-15

Syllabus – I Year
Semester -2 (Distance Mode)

Course Title	TEXTILE SCIENCE AND MANUFACTURING
Course Code	MSAF -5
Course Credit	4

COURSE OBJECTIVES

While studying the Textile Science and Manufacturing course, the student shall be able to:

- To give students a complete understanding of the characteristics, uses and importance of Natural and Manmade fibers
- To give an understanding of the process involved in the production of fibers and yarns
- Gain the knowledge about fabric manufacturing process and methods

COURSE OUTCOMES

After completion of the Textile Science and Manufacturing course, the student will be able to:

- Identify the Textile fibers and Knowing their Importance in clothing
- Understand the knowledge of fibers and its Classification
- Learn the Method of Fiber and Yarn Making technique
- Apply knowledge to differentiate the types of Fabric Manufacturing

BLOCK I – TEXTILE FIBERS

UNIT-1: Introduction to the Textile Fibres: Definition- Classification of Textile Fibres

UNIT-2: General Properties of Natural Fibres and Manmade Fibres-Related to Durability, Comfort & Appearance.

UNIT-3: Cellulosic Fibers: Manufacturing process, properties and uses of natural fibres – cotton ,linen, minor fibers

UNIT-4: Protein Fibers: Manufacturing process, properties and uses of silk , wool, Minor hair fibers

BLOCK II: MAN MADE FIBER

UNIT-5: Regenerated Fibers: Manufacturing process, properties and uses of man-made fibres –Viscose rayon ,acetate rayon

UNIT-6: Synthetic fibers: Manufacturing process, properties and uses of nylon, polyester, acrylic

UNIT-7: New Generation Fibers: Definition - List of new fibers - Spandex, Lyocel, Modal and Micro Denier Polyester fibers

BLOCK III: YARN MAKING

UNIT-8: Spinning – Definition, Classification – Chemical and mechanical spinning –blending, opening, cleaning, doubling, carding, combing, drawing, roving, spinning

UNIT-9: Yarn classification – Definition, Classification – simple and fancy yarns, Sewing threads and its properties.

BLOCK IV: WEAVING

UNIT-10: Weaving– weaving mechanism, parts of a loom and basic process

UNIT-11: Basic weaves –plain, twill, satin

UNIT-12: Fancy weaves- pile, double cloth, leno, swivel, dobby and jacquard

BLOCK V: KNITTING AND NON WOVEN

UNIT-13: Knitting-Definition, classification and history,

UNIT-14: Types of knitting- hand and machine, characteristics of knitted goods.

UNIT-15: Knitting Terminology - Terms-Weft knitting & Warp knitting.

UNIT-16: Non-Woven - felting, fusing, bonding, lamination, netting, braiding and calico, tatting and crocheting

REFERENCES:

- ★ Fibre Science and Technology - S.P.Mishra.
- ★ New Millennium fibres - Tatsuya Hongu, Gly O.Phillips
- ★ Hand Book of Textile Fibres - Vol I &II - J.Gordon Cook
- ★ Textiles –Fibre to fabric, Corbmann B.P, International student's edition, Mc Graw Hill 2. Book company, Singapore 1985.

TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department of Apparel and Fashion Design
Chennai-15

Syllabus – I Year
Semester -2 (Distance Mode)

Course Title	ELECTIVE 2: FASHION MERCHANDISING AND MARKETING
Course Code	MSAF -6
Course Credit	4

COURSE OBJECTIVES

While studying the Fashion Merchandising and Marketing course, the student shall be able to:

- Introduce students to aspects of fashion and textile marketing and merchandising
- Impart knowledge about various product standards and product specifications and the process of product development towards market need.

COURSE OUTCOMES

After completion of the Fashion Merchandising and Marketing course, the student will be able to:

- Create the fundamental concept of Merchandising and its functions
- Analyze various Merchandising strategies involved in Apparel Sector
- Impart the knowledge of product development and pricing
- Apply knowledge of Fashion Marketing research.
- Develop the ability to Fashion Market Planning

BLOCK –I MERCHANDISING

UNIT-1: Introduction to Merchandising -Understanding fashion merchandising -Scope of merchandising

UNIT-2: Fashion merchandising terminology -Role of merchandiser.

UNIT-3: Types of merchandising – Export house- Manufacturer-Buying house, Buying agency-Selection of buyers and buying agency.

BLOCK –II PRODUCT DEVELOPMENT

UNIT-4: Product development – definition – objective - product design and manufacturing - use of merchandising calendar.

UNIT-5: Pre-Buying activity - Fabric types, Properties and Behavior, Selection of fabric, Garment Construction, Quality requirements, Quality problems,

UNIT-6: Merchandisers role after production, Delivery date extension, Transport delays-Natural calamities, Importance of LC amendments

BLOCK –III PRICING AND SOURCING

UNIT-7: Pricing- Specific pricing strategies- New product pricing, demand oriented pricing, cost oriented pricing, value based pricing, competition oriented pricing- Markups and markdowns

UNIT-8: Sourcing- Types of sourcing- factors affecting sourcing decision Knowledge of fashion trends, brands and Designers, Business opportunities and awareness, Interdepartmental relationship for merchandisers,

BLOCK –IV FASHION MARKETING

UNIT-9: Fashion Marketing Research, definition – purpose – types – research design

UNIT-10: Consumer Behavior in Fashion and Retail Industry

UNIT-11: Fashion consumer decision making – market segmentation – Target marketing

UNIT-12: Fashion marketing mix - Marketing management – Responsibilities of a marketing manager

BLOCK –V FASHION MARKETING PLANNING

UNIT-13: Fashion marketing planning – introduction – planning process and objectives – definition of SWOT analysis

UNIT-14: Marketing strategy – fashion marketing plan Designing and marketing fashion products – introduction

UNIT-15: New product development – product mix and Range planning.

UNIT-16: Marketing analysis -Advertising and media planning, Fashion shows and other events. Other activity - Industry tour and project, Role play, Survey and organizing of Exhibitions.

REFERENCES

- ★ Fashion Marketing, Third Edition by Mike Easey, Blackwell Publishing, 2009
- ★ Marketing The Basics by Karl Moore and Niketh Pareek, Routledge Publications, 2010
- ★ Merchandising Theory, Principles and Practices by Grace I Kunz ,Fairchild Publications, 2009
- ★ Fashion from Concept to Consumer by Gini Stephens Frings, Pearson Prentice Hall, 2007
- ★ Inside the fashion Business by Jeannette A. Jarrow, Prentice Hall, 2002.

TAMIL NADU OPEN UNIVERSITY
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Chennai-15

Syllabus – I Year
Semester -2 (Distance Mode)

Course Title	ADVANCED GARMENT CONSTRUCTION
Course Code	MSAF -7
Course Credit	4

COURSE OBJECTIVES

While studying the Advanced Garment Construction course, the student shall be able to:

- Develop and implement advanced techniques in garment construction.
- Understand the various pattern making method
- Develop skills in creating recent garment styles.

COURSE OUTCOMES

After completion of the Advanced Garment Construction course, the student will be able to:

- Familiarize the students with the terminologies
- Create the awareness about the tools and Equipment used in Apparel Designing
- Perception related to apparel and its construction analysis.
- Provide the comprehensive knowledge about the pattern making and Grading
- Acquainted the concept of Drafting and application Apparel construction

BLOCK -I: BODY MEASUREMENT

UNIT-1: Measurements: Introduction- Taking measurements- three styles of taking measurement, areas of measurements,

UNIT-2: Standard measurement charts for children, Standard measurement charts for adults- male and female,

UNIT-3:Equipment and Tools: Drafting tools, Basic grain lines-straight, off and bias.

BLOCK II: PATTERN MAKIBNG

UNIT-4: Methods of Pattern making- Drafting, Flat Pattern- Principles and Rules, Draping. Developing Commercial Paper Pattern- Decoding the commercial paper pattern

UNIT-5: Marker development-Layouts on different fabric widths and types, Preparation of guide sheet and envelope, Calculation of material required Figure types and sizes of ready to wear garments.

UNIT-6: Evaluating the figure, Methods of figure evaluation, Standard, ideal, symmetrical figure, Symmetrical variations from the standard figure

UNIT-7: Fitting - Asymmetrical figure & Posture evaluation- Fitting -Common problems encountered and remedies for fitting defects.

BLOCK -III : GARMENT DETAILS

UNIT-8: Sleeves and Collars - Drafting of sleeves- plain, puffed, flare, leg o' mutton, ruffle, cap, raglan, drop shoulder, epaulette, tulip, hanky, Bushirt, Magyar, kimono, Dolmon, shirred, bell, bishop, lantern. Drafting of Collars – Peter pan, cape, bias, flat tennis, sailors, Chelsea, bishop, shawl, wing, shirt, rippled, Chinese, coat, cowl

UNIT-9: Kids Garment- Drafting and construction of Kids -slip and panty and romper-Drafting and construction of frocks(A line, circular, frock with yoke, frock with empire, normal and low waist line).

UNIT-10: Skirts- Drafting and construction of skirts- gathered, novelty gathered, two tied, pleated (knife, box, inverted, sunray, kick), straight, a- line, pegged, tulip, circular, gored, handkerchief, hip rider, slashed.

BLOCK –IV: DESIGN AND DEVELOPMENT OF GARMENTS

UNIT-11: Designing, Drafting and construction of Children's wear- Jumpsuit, Designing of all kinds of casual and formal wear garments for children (romper, frock, skirt, night suit, sundress, and jumpsuit)

UNIT-12: Designing, Drafting and construction of Women's wear - Adult bodice block- Drafting of adult sleeve and its alterations. Drafting and construction of Women's saree blouse and choli blouse, salwar kameez, churidaar pajama

UNIT-13: Designing and Drafting and construction of Men's wear - kalidaar kurta, Drafting and construction of trousers, Shorts ,full sleeve shirt and night gown for men.

BLOCK V: GARMENTS FOR SPECIAL NEEDS

UNIT-14: Clothing for people with special needs- Maternity and lactation period, Old Age, Physically Challenged.

REFERENCES:

- ★ Singer Sewing Essentials - Cy De Cosse Incorporated, Minnesota (1997)
- ★ Practical Clothing Construction - I and II Mary Mathews, Cosmic Press, Chennai (1986)
- ★ The Complete book of Sewing Dorling Kindersley, Dorling Kindersley limited, London (1996)
- ★ Practical clothing construction — part I & II ; Mary Mathews;(1997)
- ★ Pattern grading (or women's clothes, the technology of sizing; gerry cooklin; Back well science Ltd;(1980)
- ★ Creative clothing constructions; Bane, A: MC Grew Hill Book company, New York

TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department of Apparel and Fashion Design
Chennai-15

Syllabus – I Year
Semester -2 (Distance Mode)

Course Title	PRACTICAL: ADVANCED GARMENT CONSTRUCTION
Course Code	MSAF -P2
Course Credit	3

COURSE OBJECTIVES

While studying the Advanced Garment Construction course, the student shall be able to:

- Develop and implement advanced techniques in garment construction.
- Understand the various pattern making method
- Develop skills in creating recent garment styles.

COURSE OUTCOMES

After completion of the Advanced Garment Construction course, the student will be able to:

- Impart the Hands on Experience in Garment details Constructions
- Experience to handle the tools, equipment and machinery used in Apparel Designing
- Perception related to Children's Women's and Men's Apparel and its construction .

Choose the material for your design – prepare the Pattern-laying ,marking, cutting & Construct the **Any Three** Of the following children's garment in current trends- Calculate the cost of the garment .

1. Bib
2. Panty
3. Jabla
4. Babasuit or romper

5. A-line petticoat or Summer Frock
6. Yoke Frock
7. Knicker,Shirt.

Choose the material for your design – prepare the Pattern-laying ,marking, cutting & Construct the **Any Three** Of the following Womens's garment in current trends - Calculate the cost of the garment .

1. Saree Petticoat
2. Middi,
3. Middi top
4. Saree blouse
5. Salwar
6. Kameez
7. Nightie
8. Ladies pant

Choose the material for your design – prepare the Pattern-laying ,marking, cutting & Construct the **Any Three** Of the following Men's garment in current trends - Calculate the cost of the garment

1. Slack shirt
2. Nehru kurtha
3. churidhar
4. Pyjama
5. Pleated trousers
6. T-Shirt
7. Bermudas

TAMIL NADU OPEN UNIVERSITY
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Chennai-15

Syllabus – I Year
Semester -2 (Distance Mode)

Course Title	ORNAMENTS AND ACCESSORIES DESIGNING
Course Code	MSAF -P3
Course Credit	2

COURSE OBJECTIVES

While studying the Ornament and Accessories Designing course, the student shall be able to:

- To create and develop ornaments and accessories
- To design ornaments and accessories for various occasion.

COURSE OUTCOMES

After completion of the Ornament and Accessories Designing course, the student will be able to:

- Develop the creative ability in designing ornaments and accessories.
- Familiar with ornaments and accessories to suit the occasion.

Prepare the following Samples using the available raw materials / any base material (Example - on top of a bangle or slipper)

- Create the set of ornaments and accessories to match a garment. It should include
- Handbag / cellphone pouch (for any two categories listed above
- Ornaments for hair ,ear, neck, hand and finger and legs (for all categories)
- Slipper or shoe (for any three categories)
- Belt (with or without bows/roses) or Ornaments for waist (for anyone category listed above))
- File/ / Diaries / Office notebooks (for office wear)

- A set of ornaments and accessories for a Function /occasional wear.
- A set of Bridal Ornaments and accessories - select a Bridal costume.
- A set of Ornaments and accessories for a Fashion Show to suit a garment.

Record Note Book – Fix photographs and explain the details of materials used and the method of construction.

TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department of Apparel and Fashion Design
Chennai-15

Syllabus – II Year
Semester -3 (Distance Mode)

Course Title	COMPUTER APPLICATION IN APPAREL INDUSTRY
Course Code	MSAF -8
Course Credit	2

COURSE OBJECTIVES

While studying the Computer Application in Apparel Industry course, the student shall be able to:

- Impart the basic knowledge required for handling the computer in Apparel Industry
- Introduce the role of Computer in Apparel Sector
- Create the awareness about the integration of computer in Machinery and tools
- Describe the process sequence involved in computer aided Manufacturing
- Develop the ability to maintain computer integrated Manufacturing

COURSE OUTCOMES

After completion of the Computer Application in Apparel Industry course, the student will be able to:

- Understand about computers its parts and functions and its role in garment industry.
- Understand computer application in production planning scheduling and administration
- Learn computer aided designing (CAD) for garment designing, textile designing, pattern making and grading and marker planning.
- Learn computer aided manufacturing (CAM) for all production process right from spreading to sewing

BLOCK-I COMPUTER

UNIT- 1: Introduction to computer - Computer basics-Computer specifications -Input/Output devices

UNIT- 2: Concept of CIM-Computer aided fashion-Computer aided garment manufacturer-Corel draw. Development of design for Surface decorations.

BLOCK-II: PATTERN MAKING AND PLANNING

UNIT- 3: Computer pattern making, grading and Marker planning. Draping on mannequins to check the fitting and texture mapping. Study of Lectra, Gerber and other Softwares.

UNIT- 4: ERP & SCM- Enterprise resource planning - supply chain management.

BLOCK-III: SEWING AND TRANSPORTATION

UNIT- 5: Computer application in Sewing and Embroidery-Computer aided color matching

UNIT- 6: Computer controlled overhead transport and ware house storage systems.

BLOCK –IV: COLOUR GRAFIC DESIGNING

UNIT- 7: The Impact of colour graphics of clothing design-CAD in fabric design-

UNIT- 8: CAD in clothing design-Computer colour graphics-Creating visual images.

BLOCK-V: FABRIC DESIGN

UNIT- 9: Computer applications in fabric design, Create weave design, Creating jacquard designs.

REFERENCE:

- ★ Clothing Technology – Hannelore Eberle et –al, Verlaag Europa – Lehrmittel, Vollmer Gmbh & Co 4287, Haan – Gruilen.
- ★ Computer Fundamentals – P K Sinha , BPB Publications, Delhi (1992)
- ★ The technology of clothing manufacture – Harold Carr and Barbara Latham, Blackwell Ltd (1994)
- ★ Pattern Grading for Women‟s Cloths The Technology of sizing – Gerry Cooklin, Blackwell Science Ltd

TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department of Apparel and Fashion Design
Chennai-15

Syllabus – II Year
Semester -3 (Distance Mode)

Course Title	TEXTILE PROCESSING AND FINISHING
Course Code	MSAF -9
Course Credit	4

COURSE OBJECTIVES

While studying the Textile Processing and Finishing course, the student shall be able to:

- Impart the basic knowledge required for handling the computer in Apparel Industry
- Introduce the role of Computer in Apparel Sector
- Create the awareness about the integration of computer in Machinery and tools
- Describe the process sequence involved in computer aided Manufacturing
- Develop the ability to maintain computer integrated Manufacturing

COURSE OUTCOMES

After completion of the Textile Processing and Finishing course, the student will be able to:

- Identify the Basic Textile processing sequences
- Learn the importance of fabric finishing technique
- Understand the knowledge of Dyeing and its Classification
- Apply knowledge of printing and its Techniques
- Acquainted the machine Knowledge and Various fabric processing

BLOCK – I TEXTILE PROCESSING

UNIT-1: Typical sequence of processes. Object and methods Singeing, Desizing, Scouring

UNIT-2: Pretreatment - Synthetic Fiber Heat setting, Wool carbonizing, Weighting of silk.

UNIT-3: Wet processing equipment – kier – J box – pad roll – U box – Roller bed – Conveyor steamer – stenter.

BLOCK –II MERCERIZATION AND BLEACHING

UNIT-4: Mercerization – Theory process - Methods – Chemicals – effects.
UNIT-5: Bleaching – Hypo chlorites – Hydrogen peroxide – sodium chlorite.
UNIT-6: Bleaching of Fabric - Equipments and chemicals for bleaching of cotton, viscose, cotton/ viscose Polyester/ cotton.
UNIT-7: Evaluation of bleached fabric – whiteness – absorbency – chemical damage - residues.

BLOCK –III DYEING

UNIT-8: Dyeing – Classification of colorants – fastness properties of dyes Dyeing
UNIT-9: classification of colorants – Natural and Synthetic fastness properties of dyes.
UNIT-10: Dyeing machines – fiber, yarn and fabric dyeing machines – loose stock fiber bale – hank package – jigger – winch – HT Beam jet – padding mangles. Garment dyeing machines.

BLOCK –IV PRINTING

UNIT-11: Printing styles of printing –Direct printing :
UNIT-12: Block printing – Brief history , preparation of fabric, process involved and techniques used
UNIT-13: Stencil printing – Brief history , preparation of fabric , stencils (For one or more colour) Materials used for preparing stencils, process involved and techniques used .
UNIT-14: Resist printing: Batik printing- Brief history , Equipments required, process sequence and techniques used.
UNIT-15: Tie and dye – Brief history , Equipments required, process sequence and techniques used. Other printing methods :
UNIT-16: Types of Printing - Screen Printing, Ink jet printing, Heat transfer printing , photo printing.

BLOCK –V FINISHING

UNIT-17: Finishes – Classification of finishes, application and mechanism of mechanical (all routine finish)
UNIT-18: Chemical & Specialty Finishes –like – (wrinkle free, durable press, flame retardant, water proof, soil & satin release, antibacterial)

UNIT-19:. Post Treatment of dyed, printed and finished fabrics. (Soaping, rinsing, washing and fixation)

UNIT-20: Garment Processing- Introduction to Woven and Knitted Garment Processing.

REFERENCES:

- ★ Paters R.H.Textile Chemistry" Vol. I,II Textile institute, Manchester 1970.
- ★ Shenai V.A." Technology of textile processing" Vol. III, V,Vii,VII Sevale publications, Bombay 1981.
- ★ Textiles – Ninth edition ,Sara J Radolph and Anna L Langford, Prentice hall, New Jersey (2002).
- ★ Textile processing – J L Smith, Abhishek publications, Chandigarh (2003).
- ★ Textile Chemistry – Peters R H , Vol I, & II, Textile Institute Manchester (1970)

TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department of Apparel and Fashion Design
Chennai-15

Syllabus – II Year
Semester -3 (Distance Mode)

Course Title	GARMENT MANUFACTURING TECHNOLOGY
Course Code	MSAF -10
Course Credit	4

COURSE OBJECTIVES

While studying the Garment Manufacturing Technology course, the student shall be able to:

- Impart the basic knowledge Garment Manufacturing Techniques
- Understand different manufacturing processes
- Know the relationship between Design to production
- Describe the process sequence involved in Apparel Manufacturing

COURSE OUTCOMES

After completion of the Garment Manufacturing Technology course, the student will be able to:

- Understand about Organization structure of a garment manufacturing unit.
- Understand Pre Production Process planning scheduling and administration
- Learn the process of garment designing, pattern making and grading and marker planning to finish.
- Learn Machinery involved in all production process right from sampling to packing
- Develop the ability to maintain quality control and Garment costing

BLOCK I - GARMENT MANUFACTURING

UNIT- 1: Organization structure of a garment manufacturing unit. Work flow in a garment-manufacturing unit (Fabric Inspection to Finishing).

UNIT- 2: Designers role in producing functional and production friendly designs - Process involved in designing a design sheet - Analysis and evaluation of sample

BLOCK II - PRE PRODUCTION PROCESS

UNIT-3: Pre Production Process - Various types of fabrics used - Development of Fabric.

UNIT- 4: Garment order - Analysis of desk loom and strike offs - Placement of orders - Co-relation of all processes before placement of orders

UNIT- 5: Trims - Complete trim details-types, significance of each, sourcing, etc. - Types of trim -shoulder pads, buttons, thread, labels, hang tags, size disc, hanger, hook and bar, zippers, pocketing etc. - Trim calculation based on cutting tickets.

UNIT- 6: Interlinings/ Lining - Types/Uses/Methods of Application - Various types of resins used and their Wash instructions –

UNIT- 7: Equipment used for Fusing/ Operation of Fusing machine - Quality Problems associated with fusible interlinings

BLOCK III - SPREADING AND MARKER PLANING

UNIT- 8: Inspection of fabric and it's control-4 point fabric inspection system –

UNIT- 9: Fabric spreading - Various methods of spreading fabric-requirements of spreading process, different type of fabric spreads. Concept of Splicing and Stepped Lay - Different Types of Spreading Equipment.

UNIT- 10: Marker Planning - Use and importance of marker-calculation of marker efficiency. Advantages of CAD marker vs manual marker. - Understanding of pattern & methods if laying patterns.

BLOCK IV - CUTTING AND SEWING

UNIT- 11: Fabric & Cutting Room - Cutting- Types of cutting machines and advantage of each-Straight Knife, Round Knife, Band Knife, Die Cutter, End cutters, Notches. Different types of blades of cutting knives. Reasons for Quality problems in cutting process.

UNIT- 12: Sewing room - Machines-Types, uses and applications - Use of attachments - Sewing-Stitch types and Properties –

UNIT- 13: Various techniques of production in sewing room - Make through - Modular manufacturing - Assembly Line - Advantages and disadvantages of each

BLOCK V- FINISHING AND PACKING

UNIT- 14: Finishing Room - Equipment-Form Finisher, Steam Press, Steam Tunnel, Dolly press, heat Chamber - Processes involved-Under pressing, Top pressing

UNIT- 15: Packing Quality Control & Garment Costing - Fabric to Ware house- Definition of Quality, Importance of testing in quality,

UNIT- 16: Stages of QC in Apparel manufacturing company, Purpose of Pilot, Mid and final inspections.

REFERENCES

- ★ Technology of Clothing Manufacture Carr and Latham
- ★ Garment Technology for Fashion Designers Gerry Cooklin
- ★ Apparel Sewn Product Analysis Glock and kunz

TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department of Apparel and Fashion Design
Chennai-15

Syllabus – II Year
Semester -3 (Distance Mode)

Course Title	ELECTIVE 3: TECHNICAL TEXTILES
Course Code	MSAF -11
Course Credit	4

COURSE OBJECTIVES

While studying the Technical Textiles course, the student shall be able to:

- To acquire knowledge in technical textile.
- To develop an understanding of fiber in technical textile.
- To become familiar with various usage of technical textile.

COURSE OUTCOMES

After completion of the Technical Textiles course, the student will be able to:

- Understand about in Technical Textile and its application.
- Understand the concept of various technical textile
- Learn implement the application of fibers in the field of technical textile.

BLOCK I: TECHNICAL TEXTILE AND FIBER

UNIT-1: Technical textile - Introduction, Definition & Scope-Milestones-Types-Application Chart- Globalization of technical textiles,

UNIT-2: Developments in fibers -natural fibers, polyamide, polyester, viscose rayon, polyolefin,

UNIT- 3: High performance fibers and glass and ceramics, Classification and Application of technical textiles.

UNIT- 4: Technical Yarns - Staple yarns - Filament yarns- Definition- Types of yarns

BLOCK II – TECHNICAL FABRIC STRUCTURE

UNIT- 5: Technical Fabric Structures- Knitted- Weft knitted and warp knitted structures

UNIT- 6: Non Woven-Types of laying-Chemical bonding- Thermal bonding-Solvent bonding- Hydro entanglement

BLOCK III : FINISHING AND COATING

UNIT- 7: Reinforced – Composite Material - introduction, type and Application

UNIT- 8: Finishing of Technical Textiles - Introduction, Processes, Mechanical, Heat setting and Chemical process

UNIT- 9: Coating of Technical textiles- Introduction, methods of coating, fusible interlining and laminating.

BLOCK IV: TYPES OF TECHNICAL TEXTILES

UNIT- 10: Mobile Tech – definition and areas of application (road vehicles, aircraft, marine). Visible components - upholstery, seat belt, airbags and carpets;

UNIT- 11: Sport Tech – definition and scope, properties of sports tech textiles, Areas of application, Moisture management. Special fibers used.

UNIT- 12: Agro Tech – definition and scope, General Property Requirement of Agro textiles, Fibers used for Agro-Textiles, Areas of application.

UNIT- 13: Pack Tech – definition and scope, types of products - Polyolefin Woven Sacks, FIBC, Leno bags, Wrapping fabric, Jute sacks, Tea-bags, Soft luggage products.

UNIT- 14: Geo Tech definition and scope, Fibers used and its properties, application,

UNIT- 15: Med Tech -fibers used-commodity and specialty fibers: non implantable materials-wound care and bandages, extracorporeal devices: implantable materials-sutures, soft tissue implants, orthopedic implants, cardiovascular implants and healthcare and hygiene products.

BLOCK V: SMART TEXTILES

UNIT- 16: Smart textiles-components, classification-active smart, passive smart and very smart textiles and intelligent textiles-phase change materials, shape memory polymers, chromic and conductive materials and its applications.

UNIT- 17: Clothing for extreme climatic conditions - wearable technology for snow clothing, high altitude clothing.

UNIT- 18: Protective Clothing- Electromagnetic radiation protective clothing. Textiles- for survival-short term survival and long term survival.

REFERENCES :

- ★ Hand book of Technical textiles - A R Horrocks and S C Anand, Wood head publishing ltd, England 2000
- ★ https://www.textile Learner blogspot.con
- ★ https://www.textilemates.com
- ★ https://www.technical-textiles.net

TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department of Apparel and Fashion Design
Chennai-15

Syllabus – II Year
Semester -3 (Distance Mode)

Course Title	SEC: COMPUTER AIDED DESIGN
Course Code	MSAF -P4
Course Credit	2

COURSE OBJECTIVES

While studying the Computer Aided Design course, the student shall be able to:

- Expose the learners to abroad array of coral draw and Photoshop in textile and fashion.
- Develop skills on computerized designing and learning all techniques for graphic designs

COURSE OUTCOMES

After completion of the Computer Aided Design course, the student will be able to:

- Examine the diversified usage of Corel draw and Photoshop
- Design motif ,children's ,women's and men's garment
- Develop logo and label for industries
- Develop trendy women's garment using illustration and coral draw

Create the following designs using coral draw and Photoshop

- Motifs / small designs. Embroidery designs for Kerchiefs, Neck lines Chest prints for T-shirts and its colour separation
- Children's Garments - Jabla- different styles Frocks- different styles Middi and Tops - different styles
- Women's Garments - Churidhar- different styles Full gowns - different styles Middi & Tops - different styles Princess line Dress- different styles. House coats, Aprons, Nighties
- Men's Garments - S B vest T- Shirt - different styles Shirts - different styles Kurta pyjama - different styles
- Create logos & label for branded companies.
- Create design for Hand bag, Hat and Footwear

TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department of Apparel and Fashion Design
Chennai-15

Syllabus – II Year
Semester -4 (Distance Mode)

Course Title	TEXTILE QUALITY STANDARDS AND IMPLEMENTATION
Course Code	MSAF -12
Course Credit	4

COURSE OBJECTIVES

While studying the Textile Quality standards and Implementation course, the student shall be able to:

- Development of quality specifications for manufacturing.
- Identification of Critical Inspections Points for Quality Assurance.
- Analysis of relationship between quality specification requirements, time of performance, quality assurance, supervisory responsibility and cost.
- Develop measurements of conformance to specification so as to assure product quality.

COURSE OUTCOMES

After completion of the Textile Quality standards and Implementation course, the student will be able to:

- Understand the different types of Quality standard and its implementations
- Textile testing process involved in Apparel industry
- Learn the importance of Quality standard in Apparel industry
- Apply knowledge of Quality control process in Apparel Production
- Acquainted the procedure and process involved in quality checking

BLOCK I: QUALITY AND QUALITY INSPECTION

UNIT-1: Introduction to quality and, importance. Standards-introduction, benefits, levels and sources of standards- Selection of inspectors- Standards in garment construction

UNIT-2: Inspection - Raw materials – Fabric inspection systems-4 point, 10 point system, Sewing threads-construction and sew ability. Trims inspection- zippers waist band, buttons, Interlining .

UNIT-3: In process inspection - spreading, cutting, sewing quality parameter and types of defects occurring, assembly defects.

UNIT-4: Final inspection- finishing defects, no inspection, 100% inspection, spot checking, and arbitrary `sampling.

UNIT-5: Specifications -Importance of Specs and its role in maintaining quality, Process of spec sheet development, Concept of Tolerances - Maximum, minimum, zero tolerance.

BLOCK II: QUALITY STANDARDS

UNIT-6: Introduction to quality standards – Importance –Benefits-Levels and sources of quality standards

UNIT-7: Standards - British standards and ISO standards, ISO 9000, ISO 1400 - ASTN Standards- Total management system -Eco-labeling -Okeo Tex Standard 100

BLOCK III: ECO SPECIFICATION AND MANAGEMENT

UNIT-8: Sensitizing dye stuffs - Allergic dyes - Carcinogenic amines -Red listed as per eco specifications

UNIT-9:Eco-management of textile and apparel - Global scenario- Eco mark &environment friendly textiles –

UNIT-10: Garment defects - Cutting defects -Sewing defects - Assembly defects – Pressing -Finishing and packing defects

UNIT-11: Eco specification & restrictions in apparel &textiles - Dry cleaning using ozone depleting chemicals - PH values - Formaldehyde contents -Heavy metal contents –

UNIT-12: Pesticides and Herbicides- Azo dye stuffs –Nickel –Pentachlorophenol - Color fastness – Brightness -Softening agents.

BLOCK IV: QUALITY IMPLEMENTATION

UNIT-13: Quality Implementation - Starting a quality control program -Implementation of quality system in production line

UNIT-14: Product specification and analysis using analytical tools -Quality management through inspection -Testing and sewing quality tools.

BLOCK V: QUALITY COST

UNIT-15: Quality costs and customer returns - Inspection procedures - AQL and quality control.

UNIT-16: Terminology of textile testing -R H and temperature for testing -Measurement of moisture regain- conditioning oven, Shirley moisture meter.

REFERENCES

- An introduction to quality control for the apparel industry By Pradip V. Mehta
- J.S.N. International, 1985
- Managing quality in the apparel industry By Pradip V. Mehta, Satish K. Bhardwaj
- Apparel Manufacturing: Sewn Product Analysis, 4/E By Glock Ruth E., Glock
- Principles of Textile Testing – J.E.Booth, Newness Butterworth, London
- Textile Testing and Analysis – Billie J. Collier and Helen E. Epps, Prentice Hall, New Jersey
- Textile Testing – John H. Skinkle, Brooklyn, New York
- Handbook of Textile Testing and Quality Control – Groover and Hamby

TAMIL NADU OPEN UNIVERSITY
School of Sciences
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Chennai-15

Syllabus – II Year
Semester -4 (Distance Mode)

Course Title	ENTERPRENEURSHIP MANAGEMENT AND RETAILING
Course Code	MSAF -13
Course Credit	4

COURSE OBJECTIVES

While studying the Entrepreneurship Management and Retailing course, the student shall be able to:

- To acquire knowledge on the importance of Entrepreneurships
- Develop an understanding Customer relationship management.
- Acquire the knowledge about boutique management.

COURSE OUTCOMES

After completion of the Entrepreneurship Management and Retailing course, the student will be able to:

- Gain the knowledge about Entrepreneurship and Retailing
- Give the exposure about boutique management
- Know the evaluation a site for locating a retail store
- Learn the importance of Retail Pricing
- Apply knowledge of process in Pricing Strategies

BLOCK –I ENTERPRENEURSHIP

UNIT-1: Concept of Entrepreneurship: Definition Nature and Characteristics of Entrepreneurship - Functions and types of Entrepreneurship phases of EDP.

UNIT-2: Women Entrepreneurship - Development of women Entrepreneur and rural Entrepreneur – including self employment of women council scheme.

BLOCK –II RETAILING

UNIT-3: Introduction to Retailing – Definition – Functions performed by retailers
UNIT-4: Multi channel Retailing – Store channel – Catalog channel – Internet channel
UNIT-5: Customer Buying Behavior – The buying process – Types of buying decisions – Social factors influencing the buying process –Family, Reference groups, Culture

BLOCK –III RETAIL STORE

UNIT-6: Retail locations – Types of locations –Free standing sites, City or Town locations
UNIT-7: Evaluating a site for locating a retail store – Traffic flow and accessibility – location characteristics
UNIT-8: Negotiating a lease – types of Leases – Terms of Lease

BLOCK – IV RETAIL PRICING

UNIT-9: Customer Relationship Management – Collecting customer data – Analyzing customer data and identifying target customers – converting good customers into best customers – dealing with unprofitable customers
UNIT-10: Retail Pricing – Considerations in setting retail prices – Price adjustments – Markdowns, Variable pricing and price discrimination
UNIT-11: Pricing Strategies – High / Low Pricing, Everyday low pricing – Pricing Techniques for increasing sales –Leader pricing, Price lining, Odd pricing

BLOCK – V BOUTIQUE MANAGEMENT

UNIT-12: Managing the Boutique– Store management responsibilities – Controlling costs–Labour scheduling, store maintenance – Reducing inventory shrinkage
UNIT-13: Boutique Design – Layouts – signage and Graphics – Feature Areas – Space management –
UNIT-14: Visual Merchandising –, Design strategy, fashion styling, publication design, prop design, set design, Fixtures, Presentation techniques traditional folk media, and fashion journalism for new media
UNIT-15: Customer Service strategies – Service recovery –Listening to customers, Providing a fair solution, Resolving problems quickly

REFERENCES

- ★ Retailing Management by Michael Levy, Barton A Weitz, Ajay Pandit
- ★ The Business of Fashion designing, Manufacturing and Marketing by Leslie Davis Burns, Nancy O Bryant
- ★ Inside fashion Business by Dickerson Kitty G

TAMIL NADU OPEN UNIVERSITY
School of Sciences
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Chennai-15

Syllabus – II Year
Semester -4 (Distance Mode)

Course Title	PRACTICAL: DYEING AND PRINTING
Course Code	MSAF -P5
Course Credit	2

COURSE OBJECTIVES

While studying the Dyeing and Printing course, the student shall be able to:

- Understand the various method in Dyeing and Printing
- Develop skills in creating design using Dyeing and Printing

COURSE OUTCOMES

After completion of the Dyeing and Printing course, the student will be able to:

- Familiarize the students to develop and implement the dyeing and printing techniques
- Create the skills in dyeing and printing on various garments.
- Perception related to application of dyeing and Printing on different cloth.
- Provide with the complete knowledge about the fabric designing with printing technique.

I. Prepare the sample for the following

- Acid desizing
- Scouring of grey cotton material
- Bleaching of grey cotton material
- Dyeing of cotton material with direct dye, vat dye, sulphur dye, azoic dye
- Dyeing of silk material with acid dye, basic dye
- Dyeing of polyester material

II. Prepare the sample for the following

- Preparation of printing paste for printing
- Block printing- wooden block printing, vegetable block printing
- Screen printing
- Batik –splashed and dripped, crackled, T-janting, block printed batik
- Tie and dye-knotting, marbling, clipping, stripes, tritik and various folding methods

TAMIL NADU OPEN UNIVERSITY
School of Sciences
Department of Apparel and Fashion Design
Chennai-15

Syllabus – II Year
Semester -4 (Distance Mode)

Course Title	PRACTICAL: TEXTILE TESTING
Course Code	MSAF -P6
Course Credit	2

COURSE OBJECTIVES

While studying the Dyeing and Printing course, the student shall be able to:

- To acquire knowledge on the importance of testing equipments.
- To develop an understanding of utility of different physical testing equipment.
- To develop an understanding of the principles involved in different testing method of textiles.

COURSE OUTCOMES

After completion of the Dyeing and Printing course, the student will be able to:

- Gain the hands-on experience in Textile testing
- Give the practical experience in Fiber, yarn, and fabric testing
- Understand the knowledge of Test methods and testing Machineries and its components.

Measurement of tensile strength using tensile strength tester

- Measurement of fabric stiffness using shirley stiffness tester
- Measurement of abrasion resistance of the given fabric using martindale abrasion tester
- Measurement of crease recovery of the given fabric.

Measurement of drape using ammonia drape meter

- Measurement of bursting strength using ammonia drape meter
- Measurement of color fastness using Crock meter
- Measurement of color fastness of the given fabric using Perspirometer
- Measurement of color fastness of the given fabric using Launderometer
- Measurement of shrinkage of the given fabric.

TAMIL NADU OPEN UNIVERSITY
School of Science
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Syllabus – II Year
Semester -4 (Distance Mode)

Course Title	PROJECT WORK
Course Code	MSAF -14
Course Credit	4

PROJECT WORK

Choose a Specialized Field Required to be attached to a Fashion &Textile industry. Prepare a report for the work. The work will be based upon the study of Research/ Case study/Product Development/ Report of particular field.

Mapping of curriculum for M.Sc., Apparel and Fashion Design

S.No		MSAF- 1	MSAF - 2	MSAF - 3	MSAF -4	MSAF –P1
1	Fundamental understanding of the field	√	√	√	√	√
2	Application of Basic Apparel and Fashion design Concepts	√	√	√	√	√
3	Linkages with related disciplines	√	√	√	√	√
4	Procedural knowledge for professional subjects	√	√	√	√	√
5	Skills in related field of specialization	√	√	√	√	√
6	Ability to use of industry Knowledge	√	√	√	√	√
7	Skills in model developing	√	√	√	√	√
8	Research Skills	√	√	√	√	√
9	Skills in performing analysis and interpretation of data		√	√	√	√
10	Develop investigative Skills	√	√	√	√	√
11	Skills in problem solving in fashion and related Discipline		√	√	√	√
12	Develop Technical Communication skills	√	√	√	√	√
13	Developing Analytical skills and popular communication	√	√	√	√	√
14	Developing ICT skills	√	√	√	√	√
15	Demonstrate Professional behaviour with respect to attribute like objectivity, ethical values, self reading, etc	√	√	√	√	√

MSAF - 4	MSAF -5	MSAF - 6	MSAF -7	MSAF –P2	MSAF –P3	MSAF -8	MSAF -9	MSAF -10	MSAF -11	MSAF -P4	MSAF -12	MSAF -13	MSAF –P5	MSAF –P6	MSAF -14
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