Dr. A. P. J. ABDUL KALAM UNIVERSITY, INDORE (M.P.)

"...Nurturing talents to success"

M.Sc. FASHION DESIGNING

Syllabus

I SEMESTER

P A P E R I RESEARCH METHODOLOGY

Course Code: MSFD101T

UNIT I

Introduction to Research and Types: Definition, Objectives and Characteristics of Research. Types of Research- Basics, applied, action, evaluation, experimental, Surveys-Descriptive, Diagnostic and exploratory, Historical. Aspic Components of any research design.

UNIT II

Data and methods of data collection: Types of data- Primary and secondary data, Data sources Primary data collection methods -Direct Personal investigation, indirect oral investigations, schedules and questionnaires. Interviews and Type of interviews Pre testing and pilot study, Editing and coding of data.

UNIT III

Organization of data: Classification- geographical chronological, qualitative, quantitative, frequency distribution, discrete and continuous. Tabulation of data, parts of a table, rules of tabulation, types of tables- simple and complex, preparation of blank tables.

UNIT IV

Representation of data Diagrammatic-One dimensional diagrams-Bar diagrams-Simple, Multiple, Subdivided, Deviation Two dimensional diagrams-Pie, Circles, Rectangles and Squares- Pictogram and Cartography Graphical, Frequency graphs- Line, Polygon, curve Histogram- cumulative frequency graphs- Ogives.

UNIT V

Sampling Techniques Sample design- Different sampling Methods- probability and non-probability, sampling methods-Simple, stratified, systematic cluster, multistage, purposive Judgment, convenience, quota, snowball, accidental Sampling and Non Sampling errors

Reference Books:

1. Best.J.M and Kahn.J.V., Research in Education, Prentice Hall of India Itd., NewDeIhi.,l989.

2. Devadas.R.P. A Handbook on methodology of Research, Sri Ramakrishna vidyalaya, Coimbatore, l989.

3. .Gosh.B.N., Scientific Methods and Social Research, Sterling Publishers Pvt. Itd.,New Delhi

4. .Kothari. G.R., Research Methodology, Methods and Techniques, Wiley Eastern Ltd, Delhi, I 990.

5. Kulbir Singh Sidhu, Methodology of Research in Educations, Sterling Publishers Pvt. Ltd., New Delhi, 1987.

6. Wilkinson. T.S and Bhandarkar.P.L., Methodology and Techniques of SocialResearch, Himalaya Publishing House, Bombay, 1984.

7. Gupta. S. P., Statistical Methods, Sultan Chand & Sons, New Delhi,1996

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I SEMESTER

Course Code: MSFD102T
PAPER II HISTORY OF FASHION

UNIT I

1820- 1920 – Industrial revolution, Romanticism, Neo rococo, Victorian era, the great exhibition, Art Nouveau, Gibson girl, Great War

UNIT II

1920-1950 – Jazz age, Roaring 20's, Art deco, Surrealism, Bauhaus, World War II

UNIT III

1950-1960 – cold war, New Look, Post war romance, Rock and roll, Teddy boys, High fashion

UNIT IV

1960-1970 – space age fashion, Miniskirts, Mod and British innovation, Hippie subculture, punk, glam rock, disco

16 hours

UNIT V

1970-1990 – the late 1970's pantsuit, flower power, minimalism, power dressing, super models and high fashion, neon color, glamour wear, work wear, 1970's revival, casual chic, hip hop and Goth

Reference Books:

- Jonathan Walford – Forties Fashion
- Mcdowell'sdirectoryof twentieth century fashion

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I SEMESTER

Course Code: MSFD103T
PAPER III TECHNICAL TEXTILE

UNIT I

Introduction to technical textile; classification -Technical fabric - structures in woven knitted and non-woven structures. **Home textiles-**Introduction – classification- Latest trends in bed linens- kitchen linens – woven and non-woven floor coverings – window treatments and wall coverings. (Latest updates to be included)

UNIT II

Medical Textiles – Introduction – classification – implantable – non implantable and extra corporeal devices - application of non-woven in medical sector Latest inventions in medical textiles **Geo Textiles** ;Introduction – classification- application of woven, knitted and non-woven in geo textiles -. (Latest updates to be included)

UNIT III

Nano textiles and micro fibers - Introduction – Nano fibers- yarns and fabrics –introduction to micro fibers – scope- latest updates to be included **Defense , protective and transportation textiles** - Introduction – types of protective textiles – types of transportation textiles - textiles in defense -– scope- latest updates to be included

UNIT IV

Sustainable textiles and Smart Textiles- Introduction – eco- friendly textiles – herbal textiles - interactive electronic textiles – life sign monitoring textiles - latest updates to be included

UNIT V

Finishes Given to Technical Textiles–Mechanical – calendaring – raising – sheering – shrinkage and heat setting – chemicals; flame retardant – water repelling – anti static – anti microbial - latest updates to be included

Reference Books

- Horrocks, A.R. and Anand, S.C., Handbook of Technical Textiles, The TextilesInstitute, Wood Head Publishing Ltd., England, 2000.
- Rigby, A.J. and Anand, S.C., Non-wovens in Medical and Healthcare Products,Technical Textiles, Int., 1996.
- Pandy, S.N., Potential for the use of Natural Fibres in Civil Engineering, JuteTechnological Research Laboratory.
- Ranganathan, S.R., Jute Geo Textiles in Soil Erosion Control, Jute TechnologicalResearch Laboratory.
- Sabit Adanur,Industrialtextiles,Wellington Sears Publications

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I SEMESTER

COURSE CODE - MSFD104T

PAPER IV- APPAREL TECHNOLOGY I

Unit 1

An overview of Indian Apparel Industry: Organizational structure and sectors of the garment industry, apparel product types, developments in recent years, opportunities and challenges in Indian apparel sector, Global scenario and future trends in apparel manufacturing.

Unit 2

Innovation in apparel product development, Three-dimensional (3D) body scanning, computerized pattern making, grading, marker preparation and patterns cutting. Preproduction activity: Pre-production & TNA meetings, sampling - developing samples, sample types, sample approvals, lab dip, yarn dip, bit loom, strike offs, pre-costing and order follow-up.

Unit 3

Fabric spreading technology: Forms of spreading for different types of fabrics, lay types. Advanced spreading machines: Semi-automatic and automatic-programmable spreading machine - Automatic turntable spreader, Tubular knit fabric spreader, Automatic rolling rack.

Unit 4

Cutting and fusing technology: Cutting machines and its working principle, recent advancements in cutting, working environment and safety measures. Fusing machines, fusing materials, components of fusing, types of resin coating & its applications for various apparel products.

Unit 5

Advanced industrial sewing machines, applications and working principles - Computer controlled and multiprogramming sewing machines used for attaching pockets, belt loops, buttons, edge control, welting, sleeve setting, texture designing, serging and work aids.

References

- Gerry Cooklin, "Garment Technology for Fashion Designers", John Wiley & Sons, 2008.
- Gerry Cooklin, "Introduction to Clothing Manufacturers", Blackwell Publishing, 2nd Edition, 2006.
- Harold Carr, Barbara Latham, "The Technology of Clothing Manufacture", Blackwell publishing, 4th edition, 2008.
- Jacob Solinger – Apparel Manufacturing Handbook: analysis, principles, and practice' 2nd Edition, Bobbin Blenheim Media Corp, 1988
- Jane Alvarado, "Computer Aided Fashion Design Using Gerber Technology", Fairchild Books, 2018.
- Rajkishore Nayak, Rajiv Padhye, "Automation in Garment Manufacturing", Woodhead Publishing, 1st edition, 2017.
- Rajkishore Nayak, Rajiv Padhye, "Garment Manufacturing Technology", 1st Edition, Woodhead Publishing, May 2015.
- Rathinamoorthy R, Surjit R, "Apparel Machinery and Equipments", Woodhead Publishing India Pvt. Ltd., 2015.
- Ruth E Glock &Grace I Kunz – Apparel Manufacturing- Sewn Product Analysis, Pearson Education Inc., 2005.
- Sumithra M, "Advanced Garment Construction Guide", Woodhead Publishing India Pvt. Ltd., 2020.

References:

1. Video Lessons and Transcripts available (including in the regional language) at

https://nptel.ac.in/courses/nptel_download.php?subjectid=12110600